CASE 3956: Application of YATES PETROLEUM CORP. FOR SALT WATEK DISPOSAL, EDDY COUNTY, N. M.

125e Number 3 956

Application Transcripts.

Small Exhibits

1



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

October 30, 1984

TONEY ANAYA

POST OFFICE BOX 2008 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Yates Petroleum Corporation 207 South 4th Street Artesia, New Mexico 88210

Re: SWD Injection Permit Federal AK No. 1
Unit I, Sec. 3,
T-19-S, R-25-E,
Eddy County, N.M.

2956

Gentlemen:

In an effort to update our files regarding Salt Water Disposal Permits, we are requesting some information on the abovementioned well. Our records show that your company was issued a SWD Injection Permit No. R-3599 by us on November 26, 1968. Our records also show that since that time, this well has not been used for salt water disposal. Since a great deal of time has passed since your injection permit was granted, we assume that it is no longer your intention to use this well for water disposal purposes.

We are requesting information on the present status of this well, and whether or not your company intends to utilize this well for water disposal purposes at this time or in the near future. We would appreciate a response to this letter within thirty days. If we have not had a written response within that period of time, the injection permit granted by us will be rescinded.

Thank you for your cooperation in this matter.

Sincerely, David Catanoch

DAVID CATANACH Petroleum Engineer

DC/dr

1120 SIMMS BLDG. . P. O. BOX 1092 . PHONE 243-6691 . AIBUQUERQUE, NEW MEXICS

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico November 20, 1968

IN THE MATTER OF:

Application of Yates Petroleum)
Corporation for salt water disposal,)
Eddy County, New Mexico.)

Case No. 3956

BEFORE: ELVIS A. UTZ

TRANSCRIPT OF HEARING



MR. UTZ: Case 3956.

MR. HATCH: Application of Yates Petroleum Corporation for salt water disposal, Eddy County, New Mexico.

MR. UTZ: Let the record show that the same witness will testify as sworn in the previous case.

(Applicant's Exhibits 1 through 5 marked for identification.)

* * * * * * * * * *

PAUL G. WHITE, called as a witness, having been previously duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. LOSEE:

- Q You are the Paul White of Artesia, New Mexico, and the Production Superintendent for Yates Petroleum Corporation whose qualifications have previously been accepted by the Commission, are you not?
 - A Yes, that's correct.
- Q Please refer to what has been marked as Exhibit 1, being the plat of the proposed disposal well.
- A The plat shows the Federal AK Well, which is presently a Wolfcamp producer, located in Section 3, Township 19 South, Range 25 East.
- Q What other production is found in the area within two miles of this well?

A There's no other Wolfcamp production within an area of two miles of this well. There is some San Andres and Yeso Oil production within two miles of this well.

- Q And that's the only other production, is Yeso and San Andres?
 - A Yes, sir, that is correct.
- Q This plat also shows the location of the offset wells and operators?
 - A Yes, sir.
- Q Please refer to what has been marked as Exhibit 2, being the diagrammatic sketch of the proposed completion of this salt water disposal well, and explain what is shown by it.

A This diagrammatic sketch shows the well mechanics and shows 8 and 5/8ths-inch surface casing at 1172 with cement circulated to the surface. It shows production casing 4 and 1/2-inch at 5826, top of cement 3960 by temperature survey; shows the Wolfcamp perforations presently producing 5740 to 5752 on the pump and then shows the proposed change in mechanics for salt water disposal, a bridge plug at 5710 with cement on top of the bridging plug, the Abo perforations 4411 to 4464, these are proposed for the salt water disposal. The packer set at 4350 and 2 and 3/8ths-inch internally coated tubing to the surface.

- Q Now, you propose to shut off the Wolfcamp zone?
- A Yes, sir, that's correct.
- Q With this bridge plug. Your surface casing of 8 and 5/8ths set at 1172, is that below the fresh water zone that is present in the area?
- A Yes, that's correct, it's at least 100 feet below any Artesian aquifer.
- Q Please refer to what has been marked as Exhibit 3, being a xerox copy of the portion of the log into which the produced water is proposed to be injected, and point out the depths at which the perforations will exist.
- A This is a small section of strip log taken from the Master Log, showing the Abo zone which is proposed to be perforated from 4411 to 4464.
- Q Please refer to what has been marked as Exhibit 4, being the drillstem test of the Abo proposed injection and explain what were the results of the test.
- A The reason for the presentation of this exhibit is to show the Commission that the Abo zone is quite porous; that from its hydrostatic final closed-in pressure, would take the water on gravity and to show, thirdly that there was no commercial oil production in the Abo section.
 - Q How far is the closest Abo production approximately,

in miles, Mr. White?

- A This would be somewhat of a guess, ten miles.
- Q Now, from what oil zones is the produced water coming which you propose to dispose of in this well?
- A We propose to inject some Yeso and San Andres water, produced water in and around this area into this Abo zone.
- Q And they are from other leases that Yates Petroleum Corporation operates in the area?
 - A Yes, that is correct.
- O What volumes of water do you anticipate would be injected into this salt water disposal well?
- A We carried this as varying amounts for reasons which will be brought out in a case to follow this one, and we could not justifiably pin down an amount of water unless we talk about 500 barrels per day maximum.
- Q Will this water be injected under pressure or gravity?
- A From the drillstem test and the porosity and permeability of the Abo zone, it should gravity.
- Q Do you have an opinion as to whether the disposal of the prosuced water in the manner you propose in this application, creates any danger to the fresh water, oil or gas reservoirs in this area?

A No, sir, I see no reason why it should injure any other production or any fresh waters in the area.

Q You earlier testified that the Wolfcamp would be plugged off; what is the present rate of production on that Wolfcamp?

A Presently we produce approximately 4 barrels of oil per day and two barrels of water per day which is uneconomical to pump from 5700 feet.

Q Do you know what the cumulative recovery from the Wolfcamp from that well has been, approximately?

A Yes, sir, I can give you that. The cumulative recovery is 19,000 barrels from the Wolfcamp.

Q Now, Exhibit 5 is your data sheet which actually contains the information to which you have testified?

A Yes, sir.

Q Were Exhibits 1 through 5 prepared by you or under your direction?

A Yes, sir, they were prepared by me.

MR. LOSEE: We move to introduce Exhibits 1 through 5, Mr. Examiner.

MR. UTZ: Without objections, Exhibits 1 through 5 will be entered into the record in this case.

(Whereupon, Exhibits 1 through 5 offered and admitted in evidence.)

CROSS EXAMINATION

BY MR. UTZ:

- Q What about the annulus in this well, do you propose to fill it?
- A Yes, sir, on this particular well, we will fill the annulus with inhibited fluid.
 - Q Will you have a gauge at the surface?
 - A Yes, sir.
- Q Between the top of the cement on the 4 and 1/2 and the base of the 8 and 5/8ths, what do you have in this area in the way of production of water?
- A Sir, there's some Yeso production within threequarters of a mile, I would say, approximately three-quarters of a mile. There is some Yeso production in this interval, oil and water.
- Q With the plastic-coated tubing and the inert fluid in the annulus you feel that you can protect that production very well with this installation?
 - A Yes, sir, I do.
 - Q How salty is the water in this area?
- A Well, the San Andres water which we'll bring over, will have a higher degree of salinity than the Yeso water.

 The Yeso water, if my memory serves me correctly, will run

around 40,000 parts per million, and the San Andres water can run as high as 100,000 parts per million.

MR. UTZ: Any other questions of the witness?

He may be excused.

(Witness excused.)

MR. UTZ: The case will be taken under advisement.

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	WITNESS	PAGE
PAUL	G. WHITE	
	Direct Examination by Mr. Losee	2
	Cross Examination by Mr. Utz	7

EXHIBITS	MARKED	OFFERED AND ADMITTED
Applicant's 1 through 5	2	6

STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

I, ADA DEARNLEY, Court Reporter in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me, and that the same is a true and correct record to the best of my knowledge, skill and ability.

WITNESS my hand this 2nd day of December, 1968.

ADA DEARNLEY

I do hereby cortify that the foregoing is a complete record of the proceedings in the Executor hearing of Case No 325

heard by no on 11 = 20 76 19

New Mexico Oil Convergation Cognission

GOVERNOR DAVID F. CARGO CHAIRMAN

State of New Mexico

Bil Conservation Commission

LAND COMMISSIONER GUYTON B. HAYS MEMBER



STATE GEOLOGIST A. L. PORTER, JR. SECRETARY - DIRECTOR

P. O. BOX 2088 SANTA FE

November 26, 1968

· · · · · · · · · · · · · · · · · · ·	Re:	Case No	3956
Mr. A. J. Losee		Order No.	R-3599
Attorney at Law Post Office Box 239		Applicant:	
Artesia, New Mexico 88210	1	Yates Pet	roleum Co.
Dans Gám.			
Dear Sir:			
Enclosed herewith are two	copies of the	above-refer	enced Com-
mission order recently ent	ered in the s	ubject case.	
•	Very truly	yours,	
		_	
	a L Parts		
	A. L. PORTE	R. Jr.	
	Secretary-D	•	
ALP/ir			
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Hobbs OCC X			
Artesia OCC *			
Aztec OCC			
	er Office		

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF HEW MEXICO

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

> CASE No. 3956 Order No. R-3599

APPLICATION OF YATES PETROLEUM CORPORATION FOR SALT WATER DISPOSAL, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 8:30 a.m. on November 20, 1968, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

MOW, on this 26th day of November, 1968, 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.

PINDS:

- (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, Yates Petroleum Corporation, is the owner and operator of the Federal AK Well No. 1, located in Unit I of Section 3, Township 19 South, Range 25 East, NMPM, Penasco-Wolfcamp Pool, Eddy County, New Mexico.
- (3) That the applicant proposes to utilise said well to dispose of produced salt water into the Abo formation, with injection into the perforated interval from approximately 4411 feet to 4464 feet.
- (4) That the injection should be accomplished through 2 3/8-inch plastic-lined tubing installed in a packer set at approximately 4350 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should

-2-**CASE No. 3956** Order Mo. R-3599

be attached to the annulus at the surface in order to determine leakage in the casing, tubing, or packer.

(5) 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, Yates Petroleum Corporation, is hereby authorized to utilize its Federal AK Well No. 1, located in Unit I of Section 3, Township 19 South, Range 25 East, HMPM, Renasco-Wolfcamp Pool, Eddy County, New Mexico, to dispose of produced salt water into the Abo formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 4350 feet, with injection into the perforated interval from approximately 4411 feet to 4464 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 at the surface in order to determine leakage in the casing, tubing, or packer.

- (2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (3) 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 CONSTRIVATION COMMISSION DAVID CARGO.

> > . Marber & Secretary

3956
11-20-68
11-21-58

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gange at the Surface

Shirts.

CASE 3953 continued:

3418 feet to 3429 feet in the Bernice Dinnin A Well No. 2 located in Unit J of Section 23, Township 20 South, Range 33 East, Teas Yates-Seven Rivers Pool, Lea County, New Mexico.

CASE 3954:

Application of C. E. Long, Jr., for a non-standard gas proration unit and an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an 80-acre non-standard gas proration unit comprising the S/2 SW/4 of Section 32, Township 21 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, to be dedicated to his Shell-State Well No. 1 at an unorthodox location for said pool 660 feet from the South line and 2310 feet from the West line of said Section 32.

CASE 3955:

Application of Yates Drilling Company for salt water disposal, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Pennsylvanian formation in the perforated interval from approximately 9640 feet to 9660 feet in its Lillie M. Yates Well No. 4 located in Unit D of Section 31, Township 8 South, Range 37 East, Allison Pennsylvanian Pool, Roosevelt County, New Mexico.

CASE 3956:

Application of Yates Petroleum Corporation for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Abo formation in the perforated interval from approximately 4411 feet to 4464 feet in its Federal AK Well No. 1 located in Unit I of Section 3, Township 19 South, Range 25 East, Penasco-Wolfcamp Pool, Eddy County, New Mexico.

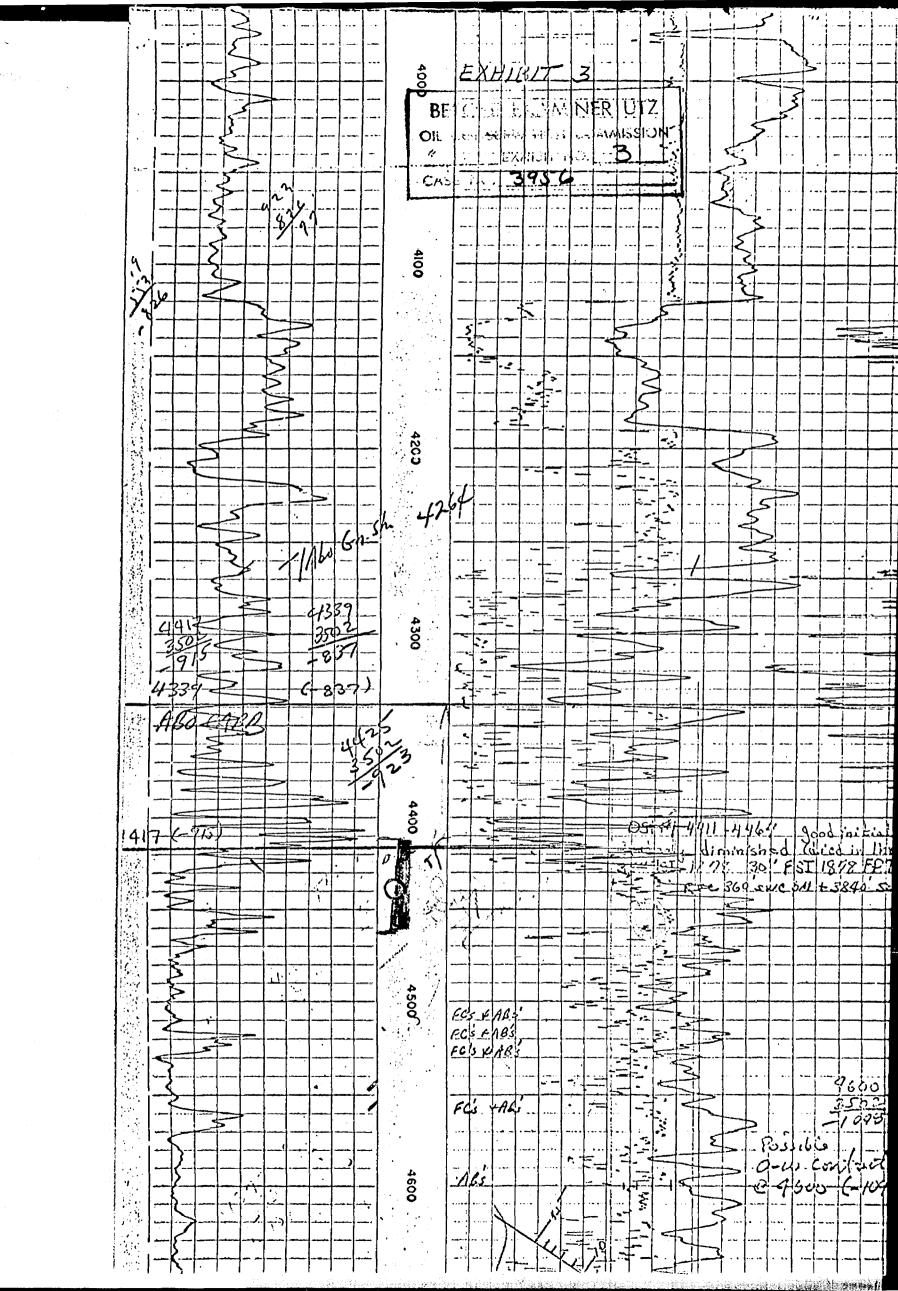
CASE 3957:

Application of Yates Petroleum Corporation for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the interval from approximately 1260 feet to 1410 feet in its A. V. Gissler Well No. 2 located in Unit B of Section 23, Township 17 South, Range 25 East, Eagle Creek-San Andres Pool, Eddy County, New Mexico.

CASE 3958:

Application of Yates Petroleum Corporation for a dual completion and salt water disposal, Eddy County, New Mexico.

Applicant, in the above-styled cause, seeks authority to dually complete three wells in Section 8, Township 19 South, Range 25 East, and Section 25, Township 18 South, Range 25 East, Penasco Draw-San Andres Yeso Pool, Eddy County, New Mexico, in such a manner as to permit the production of oil from the San Andres formation and the disposal of produced salt water



DIAGRAMMATIC SKETCH PROPOSED SWD WELL YATES PETROLEUM CORP. FEDERAL AK NO. 1

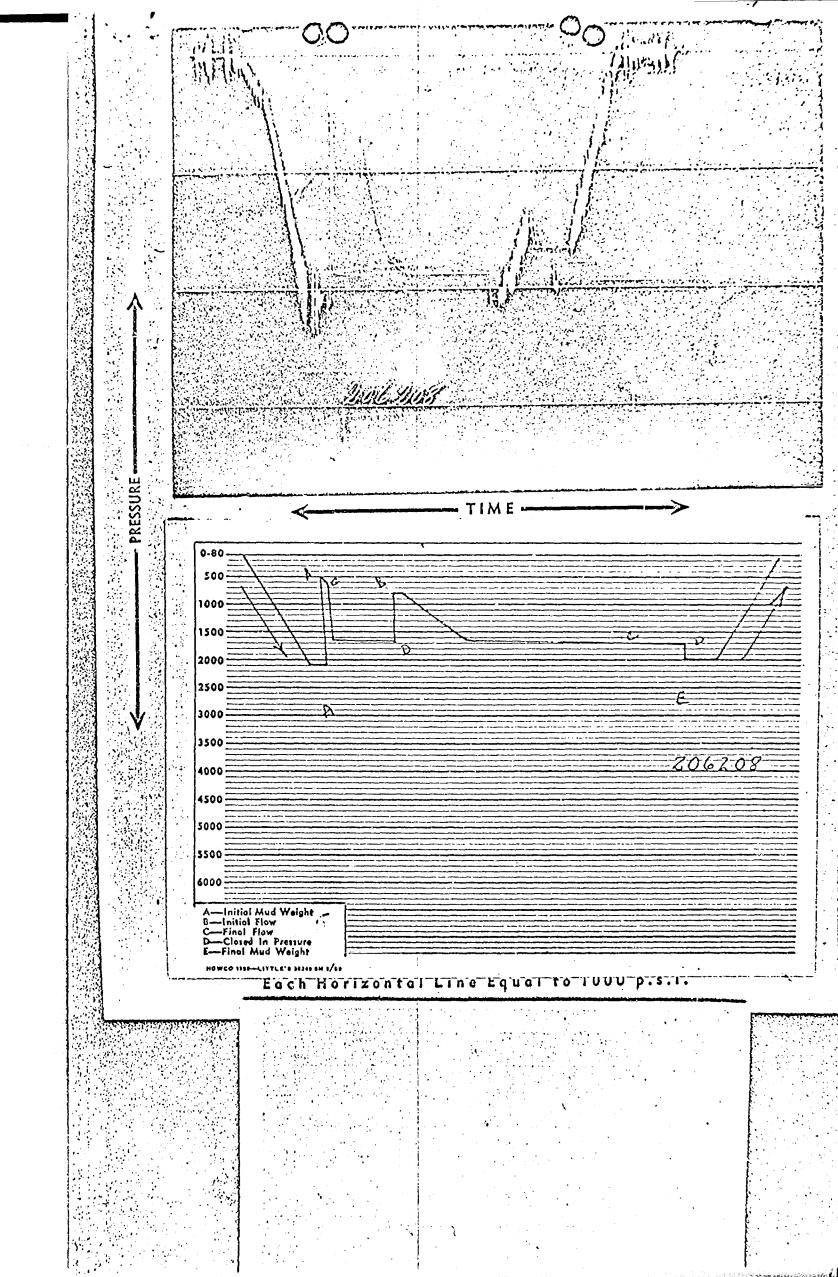
BEFORE EXAMINER UTZ OIL CONSERVATION COMMISSION EXHIBIT NO. 2 CASE NO. 3956	Cement circulated to surface 550 sx.
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	2 3/8" Internally coated tubing at 4355' Top cement 3960' 400 sx Baker Retr. Lok-Set Packer at 14350 (Abo Perforation 4411 - 4464
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of Cultion	10110	Testor PRO PROMINE		- 1 -

EXHIBIT 4

BEFORE EXAMINER UTZ
CIL CONSERVATION COMMISSION
EXHIBIT NO. 4
CASE NO. 3956

SELLEN TALES



Company PAN AMERICAN PETROLEUM CORPORATION 5-2-60

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Remarks:

YATES PETROLEUM CORPORATION PERTINENT DATA SHEET

- 1. Produced salt water will be injected into the Abo Formation from (4411-4464).
- 2. The produced water to be injected is produced from the Yeso and San Andres oil wells in the area, it is requested that other isolated produced water can be injected into the Abo.
- 3. The volume of water injected will vary as conditions dictate.
- 4. The Wolfcamp perfs which are to be plugged off presently produce approximately 4 BOPD and 2 BWPD.
- 5. Formation pressures indicate that produced water will gravity into the Abo. There are no commercial Abo producers in the area of the well.

EXHIBIT	5
DATE	10-28-68

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXELETING 5
CAUS NC. 3956



Care 3956

S. P. YATES
PRESIDENT
HARVEY E. YATES
VICE PRESIDENT
MARTIN YATES, III
VICE PRESIDENT
JOHN A. YATES
VICE PRESIDENT
HUGH W. PARRY
SEC. - TREAS,

YATES BUILDING - 207 SOUTH 41H ST. ARTESIA, NEW MEXICO - 88210

October 15, 1968

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

Attn: Secretary Director, Mr. A. L. Porter Jr.

Re: Conversion of (1) Wolfcamp Producer to Salt Water Disposal Well

Dear Sir:

The Yates Petroleum Corporation respectfully requests that the New Mexico Oil Conservation Commission set for hearing as soon as possible a case for the conversion of the following well:

Federal AK No. 1 Unit I Sec. 3-T19S-R25E Eddy Co.

The Yates Petroleum Corporation seeks authority to convert the subject well from a Wolfcamp Oil Producer to an Abo salt water disposal well.

This application is accompanied by (1) plat of area (2) diagrammatic sketch of proposed conversion (3) log on well (4) DST in Abo Zone (5) pertinent data sheet.

Copies of this application and all exhibits pertaining thereto have been sent to all offset operators and the USGS.

Sincerely,
Oal Authit.
Paul G. White

PGW/gs

cc: District NMOCC
Atlantic Richfield
Sinclair Oil Co.

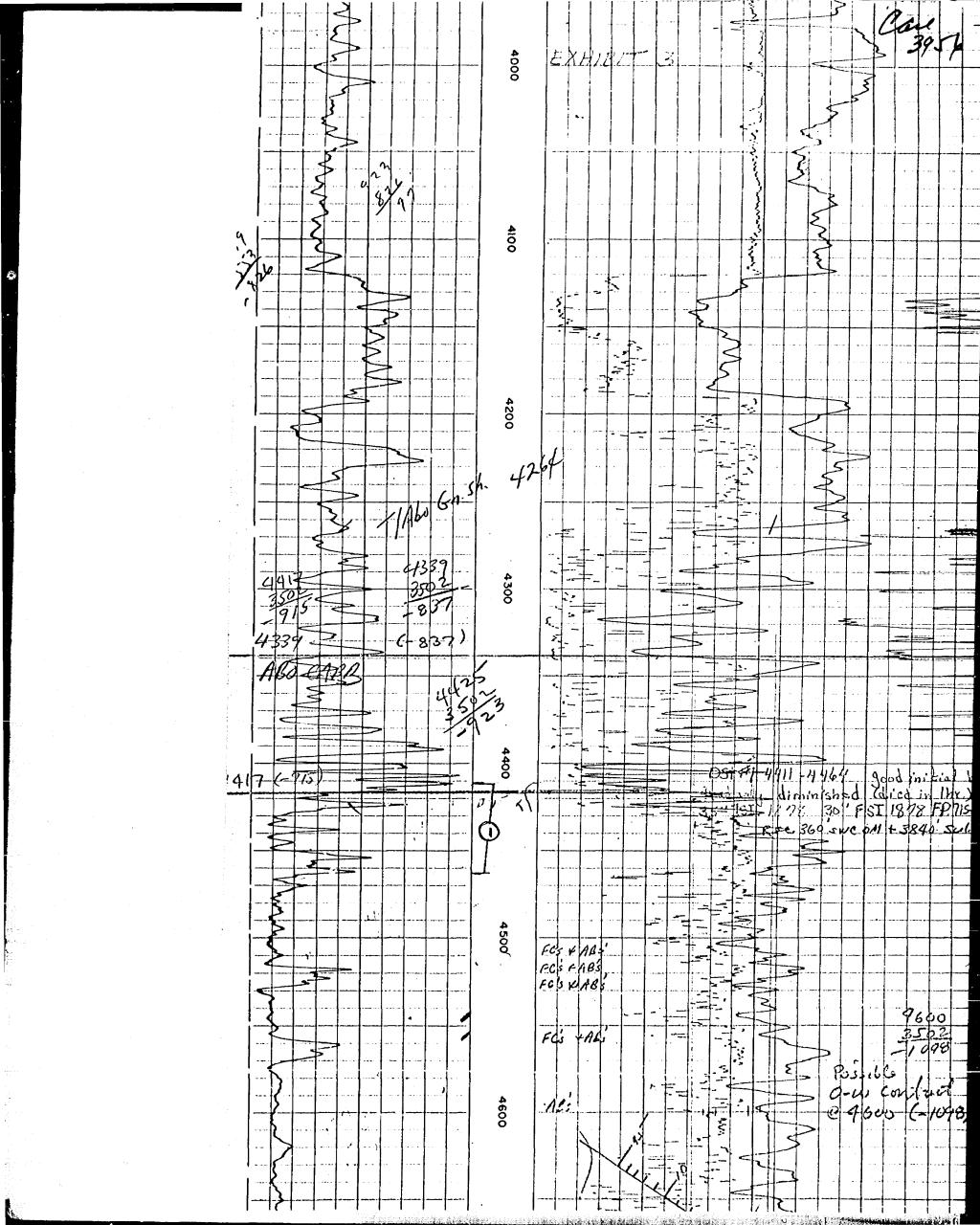
DOCKET MAILED

Data 11-7-68

June Wolfent

PROPOSED SWD WELL YATES PETROLEUM CORP. FEDERAL AK NO. 1

THE	Cement circulated to surface 550 sx.
	→ 8 5/8" casing at 1172'
	2 3/8" Internally coated tubing at 4355'
	Baker Retr. Lok-Set Packer at 4350
	Abo Perforation 4411 - 4464 Bridging Plug at 5710 with
	cement on top Wolfcamp Perforations 5740-
THE THE THE	5752'
	4½" Casing at 5826'



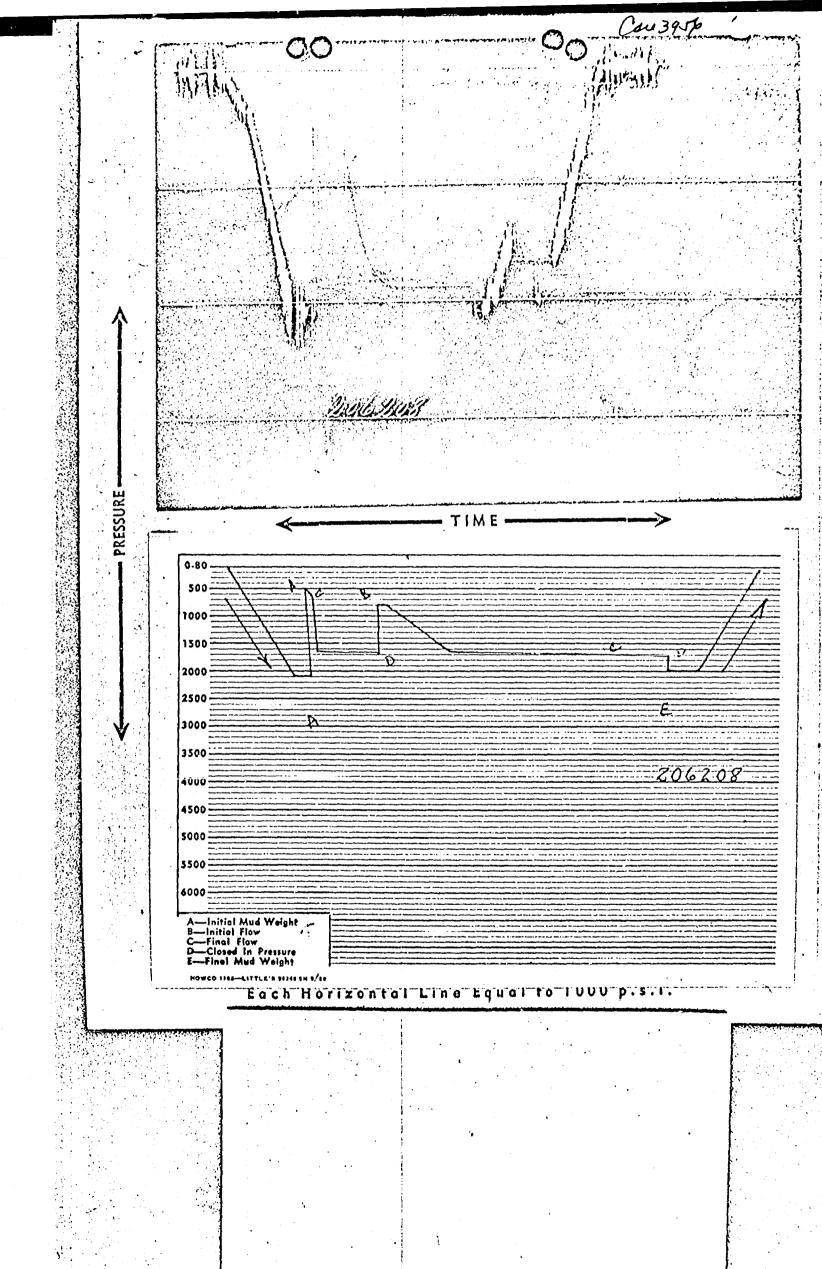
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Initial Flow Pres. Closed tool for 35 minute initial closed in		AVERTO
Final Flow Pres. pressure. Re-opened tool with strong blow -		PTCA
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A	OWNERS DISTRICT	
Final Hydro Mud Pressure Witnessed By JTM TWEEDY	RICT	; ;
Amount-Type of Cushlon None Tester MAC NeCAIN		;

HOWCO No. 1295 R J.

A CONTRACTOR OF THE PARTY OF TH

Section .



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	Time Defi. .000"	PSI Temp. Corr.	Time Defi. •.000"	PSI Temp. Corr.	Tim Def .000	1.	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.
PC	000	<u>L72</u>	_000	620	0	00	681	.000	187և
PI	-012	620	ــــــــــــــــــــــــــــــــــــــ	1855		က	1303	.213	1874
P2			0468	1868	.2	00	1670		
P3			.0702	1871	3	იი	1826		· · · · · ·
P4			.0936	1872		00	1867		
P5			117	1873	5	00	1872		
P6			11/01/	1874	.6	00	1873		
P7			.1638	1874	7	00	1873		
P8			:1872	187կ	8	00	1874		
P9			.2106	1874					
PI	o		.234	1875	·				
		Minute Intervals	3.5	Minute Intervala	15	ı	Minute	1:	Minute

Care 3956

YATES PETROLEUM CORPORATION PERTINENT DATA SHEET

- 1. Produced salt water will be injected into the Abo Formation from (4411-4464).
- 2. The produced water to be injected is produced from the Yeso and San Andres oil wells in the area, it is requested that other isolated produced water can be injected into the Abo.
- 3. The volume of water injected will vary as conditions dictate.
- 4. The Wolfcamp perfs which are to be plugged off presently produce approximately 4 BOPD and 2 BWPD.
- 5. Formation pressures indicate that produced water will gravity into the Abo. There are no commercial Abo producers in the area of the well.

EXHIBIT	5
DATE	10-28-68

GMH/esr

BEFORE THE CEL 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:

D14

CASE No. 3956

Order No. R- 3599

APPLICATION OF YATES PETROLEUM CORPORATION FOR SALT WATER DISPOSAL, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY	THE	COM	MIS	SION :	

8:30
This cause came on for hearing at 9 a.m. on November 20 1968, at Santa Fe, New Mexico, before Examiner Elvis A. Utz

NOW, on this <u>day of November</u>, 1968, 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, Yates Petroleum Corporation
 is the owner and operator of the Federal AK Well No. 1
 located in Unit I of Section 3, Township 19 South, Range
 25 East, NMPM, Penasco-Wolfcamp Pool , Eddy
 County, New Mexico.
- (4) That the injection should be accomplished through 234 -inch plastic-lined tubing installed in a packer set at

approximately 4350 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should be attached to the annulus or the annulus left open at the surface in order to determine leakage in the casing, tubing, or packer.

(5) 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, Yates Petroleum Corporation,				
is hereby authorized to utilize itsFederal AK Well No. l,				
located in Unit I of Section 3, Township 19 South, Range				
25 East, NMPM, Penasco-Wolfcamp Pool Eddy				
County, New Mexico, to dispose of produced salt water into the				
Abo formation, injection to be accomplished through				
238 -inch tubing installed in a packer set at approximately				
4350 feet, with injection into the perforated interval				
from approximately 4411 feet to 4464 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 left open at the surface in order to determine leakage in the casing, tubing, or packer.

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

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