

CASE 5789; AMOCO PROD. CO. FOR
SALT WATER DISPOSAL WELL,
ROOSEVELT COUNTY, NEW MEXICO

CASE 110.

5789

Application,

Transcripts,

Small Exhibits

ETC.

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825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 962-9212

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
October 27, 1976

EXAMINER HEARING

IN THE MATTER OF:

Application of Amoco Production Company)
for salt water disposal well, Roosevelt) CASE
County, New Mexico.) 5789

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

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

For the Applicant: Antone L. Peterson, Esq.
Legal Counsel for Amoco Prod. Co.
P. O. Box 3092
Houston, Texas

ATWOOD, MALONE, MANN & COOTER
Attorneys at Law
P. O. Drawer 700
Roswell, New Mexico

I N D E X

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EXHIBIT INDEX

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1 MR. NUTTER: The hearing will come to order, please.
2 We will call next Case Number 5789.

3 MS. TESCHENDORF: Case 5789, application of Amoco
4 Production Company for a salt water disposal well, Roosevelt
5 County, New Mexico.

6 MR. PETERSON: Antone Peterson for the applicant.
7 The file should also reflect an appearance by Atwood, Malone,
8 Mann and Cooter for the applicant.

9 MR. NUTTER: We do have that written appearance.

10 MR. PETERSON: Amoco has one witness today.

11 (THEREUPON, the witness was duly sworn.)
12

13 JAMES E. PEASE
14 called as a witness, having been first duly sworn, was
15 examined and testified as follows:
16

17 DIRECT EXAMINATION

18 BY MR. PETERSON:

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

20 A James E. Pease.

21 Q And your employer, location of employment and the
22 capacity in which you are employed, Mr. Pease?

23 A I'm employed by Amoco Production Company in Houston,
24 Texas as a Staff Engineer.

25 Q Have you testified before the Commission previously?

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Page 4

1 A. No, sir.

2 Q. In light of that, would you please give us an insight
3 into your qualifications, starting with your educational
4 background and then your duties and responsibilities since
5 graduation?

6 A. I earned a Bachelor of Science degree in petroleum
7 engineering from the University of Tulsa in January of 1957
8 following which I went to work for Amoco Production Company
9 or its predecessor companies in various engineering capacities.
10 I had about four years of field engineering experience and I
11 have about twelve years of reservoir experience with Amoco,
12 including two years in their research center in Tulsa where
13 I was assigned to the reservoir performance and evaluation
14 group and followed thermo-recovery projects.

15 Q. And you are now in the proration section, I
16 understand?

17 A. Yes, sir.

18 MR. PETERSON: Are the witness' qualifications
19 acceptable to the Commission, Mr. Examiner?

20 MR. NUTTER: Yes, they are.

21 Q. (Mr. Peterson continuing.) I would like for you
22 now to direct your attention to what has been labeled Amoco's
23 Exhibit One, Mr. Pease, could you tell us what that exhibit
24 shows, please?

25 A. Yes, sir, this is a plat of the Petersen Field area.

1 The Swearingen "C" Well No. 2 for which we are asking authority
2 for salt water disposal is indicated by the red arrow.

3 Q I notice you have also marked several other, it looks
4 like well locations, could you explain the significance of
5 those markings, please?

6 A Yes, sir, the red dot represents the Swearingen "C"
7 No. 1 which is an oil producer from the Fusselman zone. The
8 green dots indicate Penn producers and there is one former
9 Penn producer which is down in Section 36, Township 5 South,
10 Range 32 East.

11 Q You have indicated that the red arrow shows your
12 proposed injection well, would you give us the exact location
13 of that well, please?

14 A Yes, sir, it is located three hundred and thirty
15 feet from the south line, nine hundred and ninety feet from
16 the west line in Section 18, Township 5 South, Range 33 East,
17 Roosevelt County, New Mexico.

18 Q Do you have any further comments regarding this
19 plat?

20 A No, sir.

21 Q I would like for you now to look at what has been
22 labeled Amoco's Exhibit Two and explain what that is, please?

23 A This is a complete composite log which was run on
24 the Swearingen "C" No. 2 from surface to TD.

25 Q And can you explain the numerous completion attempts

1 made in this well, please?

2 A. Okay. The total depth of the well was eight thousand,
3 six hundred and fifty-six feet, five-and-a-half inch casing
4 was set at eight thousand, four hundred and seventy-seven
5 feet and was cemented in place with four hundred and twenty-
6 five sacks of cement. The cement top and the casing annulus
7 is at six thousand, eight hundred and fifty feet by temperature
8 survey.

9 The first completion attempt was made at eight
10 thousand, three hundred and thirteen to eighteen feet. The
11 perforations were acidized with one thousand gallons of fifteen
12 percent hydrochloric acid. They tested by swabbing a total
13 of fifty-seven barrels of load water and two hundred and
14 fourteen barrels of water in forty hours with no show of oil
15 or gas.

16 A cast iron bridge plug was set at eight thousand,
17 two hundred and sixty feet and was capped with thirty-five
18 feet of cement. The five-and-a-half inch casing was perforated
19 from seven thousand, eight hundred and thirty-five to forty-
20 five feet and was acidized with one thousand gallons of fifteen
21 percent hydrochloric acid. This interval was tested for a
22 two-week period, the last test by swabbing was eight barrels
23 of oil and thirty-seven barrels of water in eight hours. This
24 interval was re-stimulated with five thousand gallons of
25 fifteen percent hydrochloric acid and was tested for several

1 days, the last test being two barrels of oil and four barrels of
2 water by swabbing in three hours.

3 A cast iron bridge plug was set at seven thousand,
4 seven hundred and seventy feet and capped with thirty-five
5 feet of cement. The five-and-a-half inch casing was then
6 perforated from seven thousand, four hundred and twenty-four
7 to seven thousand, four hundred and thirty-one feet. These
8 perforations were acidized with one thousand gallons of
9 fifteen percent hydrochloric acid. They tested by swabbing
10 six barrels of water with no show of oil or gas in four hours.

11 The well has been shut in since June 2nd, 1976
12 awaiting approval for a salt water disposal well.

13 Q I notice, Mr. Pease, you have marked the Fusselman
14 formation on the log, your proposed injection interval, what
15 does the log show about the Fusselman?

16 A The Fusselman was encountered at eight thousand, one
17 hundred and fifteen feet and the top one hundred and thirty-
18 five feet is dense dolomite with essentially zero porosity.

19 Q Do you have any further comments regarding this log?

20 A No, sir.

21 Q I would like for you then to look at what has been
22 labeled as Amoco's Exhibit Three, a sketch of the proposed
23 injection well, could you explain that sketch, please?

24 A This is a sketch of the Swearingen "C" No. 2 as it
25 will exist after the workover to complete it as a salt water

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1 disposal well. Two of the present sets of perforations will
2 be cement squeezed, these are from seven thousand, four hundred
3 and twenty-four to thirty-one feet and seven thousand, eight
4 hundred and thirty-five to forty-five feet.

5 This sketch also shows two additional sets of
6 perforations which will be added during that workover. These
7 are from eight thousand, three hundred and thirty-four feet to
8 eight thousand, three hundred and forty-four feet and eight
9 thousand, four hundred and forty-eight feet to eight thousand,
10 four hundred and sixty-four feet.

11 Two-and-three-eighths inch internally coated tubing
12 will be run in the well on a packer. The packer will be set
13 at approximately eight thousand, two hundred and sixty feet.
14 Treated brine will be left in the annulus.

15 Q All right, as to the three sets of perforations
16 which you intend to inject this salt water through, what
17 volume of fluid will be injected into the perforations?

18 A When the application was filed the only well in the
19 Petersen Field that was making water at that time was the
20 Swearingen "C" No. 1, the Fusselman producer. At that time
21 it was making about fifty barrels of water per day. Since
22 then we have completed the Swearingen "B" No. 4 Well and on
23 potential test it made a hundred and ninety-three barrels of
24 water per day.

25 Q So your estimate of the injection volume we need is

1 what, Mr. Pease?

2 A The minimum now would probably be about two hundred
3 and fifty barrels of water per day.

4 Q What injection pressure would you anticipate?

5 A We anticipate that this Fusselman interval will take
6 the water on a vacuum. However, I should point out that
7 during the acid treatment of the Fusselman zone the initial
8 shut-in pressure was nineteen hundred pounds, so it is possible
9 that a pressure of about two thousand pounds will be required.

10 Q And you plan to conduct an injectivity test before
11 you commence injection and you would like for that to govern
12 the injection pressure?

13 A That's correct. We plan to acidize the three sets
14 of perforations as shown on the left of this exhibit and then
15 run a short-term injectivity test at about three different
16 rates.

17 Q Do you have any further comments regarding the sketch?

18 A No, sir.

19 Q If you would then look at what has been labeled
20 Amoco's Exhibit Four and explain what that exhibit shows,
21 please?

22 A This is a two well log cross section between the
23 Swearingen "C" No. 2 on the left and the Swearingen "C" No. 1,
24 the Fusselman producer on the right.

25 We have marked the various geological horizons on

1 the two logs and correlated across between the two.

2 Q All right, then, this cross section shows your
3 proposed injection well, the Swearingen "C" No. 2 and the
4 immediate oil producer offset in the Fusselman, the Swearingen
5 "C" No. 1. I think in your earlier testimony regarding the
6 log of the Swearingen "C" No. 2 you mentioned that there was
7 a dense zone in the Upper Fusselman in that well. Is it then
8 your opinion that the oil producing zone in the Swearingen "C"
9 No. 1 is isolated from your proposed injection zone in the
10 Swearingen "C" No. 2?

11 A Yes, it is. The Swearingen "C" No. 1 encountered the
12 Fusselman at seven thousand, eight hundred and twenty-seven
13 feet and the top of the Fusselman in this well was porous and
14 permeable. The perforations in the well are shown on the
15 log cross section, being seven thousand, eight hundred and
16 forty-one to seven thousand, eight hundred and forty-nine feet.

17 Q Even assuming arguendo that those zones were in
18 communication, would you have any qualms about injecting into
19 that Lower Fusselman interval in the "C" 2 Well?

20 A No, sir.

21 Q How is the salt water which you plan to inject being
22 disposed of at the present?

23 A It is presently being trucked out.

24 Q At approximately what cost? Do you have those
25 figures?

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1 A. Well, based on the fifty barrels of water per day
2 from the Swearingen "C" No. 1, it's costing about fifteen
3 hundred dollars a month, which is about a dollar per barrel
4 of salt water.

5 Q So in your opinion the injection of this salt water
6 would serve in the interest of conservation by allowing money
7 which is now spent on trucking the salt water away be spent
8 on further developing this reservoir and lowering the
9 economic limit of these wells?

10 A. That is correct.

11 Q Also in your opinion would this proposed salt water
12 injection well violate anyone's correlative rights?

13 A. No, sir.

14 MR. PETERSON: That's all I have of the witness.
15 I would like to move that Amoco's Exhibits One through Four
16 be admitted into evidence.

17 MR. NUTTER: Amoco's Exhibits One through Four will
18 be admitted into evidence.

19 (THEREUPON, Amoco's Exhibits One through
20 Four were admitted into evidence.)

21
22 CROSS EXAMINATION

23 BY MR. NUTTER:

24 Q Mr. Pease, the tests that were made now on your
25 Exhibit Number Two, you testified as to some swab tests that

1 were made down here in this eighty-three hundred foot interval?

2 A. Yes, sir.

3 Q. Now, that would be the Fusselman, correct?

4 A. Yes, sir.

5 Q. And then some additional tests were made at seventy-

6 eight, thirty-five to forty-five and that would be the

7 Pennsylvanian?

8 A. Yes, sir.

9 Q. And that's in the Cisco which is the pay in the

10 offsetting wells, is that correct?

11 A. Yes.

12 Q. And then the upper perforations that were tested at

13 seventy-four, twenty-four to thirty-one were in the Wolfcamp

14 then?

15 A. Yes, sir.

16 Q. And the only thing that was productive at all was

17 the Penn which was only two barrels of oil per day, I think,

18 after the second treatment on the well?

19 A. It was two barrels of oil in three hours.

20 Q. Oh. Okay, now, what is the actual interval that

21 you will be disposing of?

22 A. It will be from eight thousand, three hundred and

23 thirteen feet to eight thousand, four hundred and sixty-four

24 feet.

25 Q. Which is what is shown on your Exhibit Number Three

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1 then?

2 A Yes.

3 Q Well, the application was for a different interval,
4 being down to eighty-five, thirty-eight, but I guess you
5 decided not to go that deep into the Fusselman with the
6 water?

7 A That is correct. We do not plan to drill out the
8 casing shoe on the casing.

9 Q I see. Now, you say that on the testing in the
10 Fusselman formation it indicated a formation pressure of
11 about nineteen hundred pounds?

12 A That was the initial shut-in pressure on the acid
13 treatment of the perforations from eight thousand, three
14 hundred and thirteen to eighteen feet, yes, sir.

15 Q So while you think that the Fusselman might take
16 water on a vacuum it also may take about two thousand pounds
17 of pressure on the surface to get water in?

18 A Yes, sir.

19 Q The Commission as a rule of thumb, Mr. Pease, has
20 adopted, at least on a temporary measure, a maximum injection
21 pressure of approximately two-tenths of a pound per foot of
22 depth which at eighty-three hundred would be approximately
23 sixteen hundred and sixty pounds.

24 You haven't made any tests to determine whether the
25 water would go in the formation on a vacuum or whether it is

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1 going to take two thousand pounds?

2 A. Not at this time, sir.

3 MR. NUTTER: Are there any further questions of
4 this witness? He may be excused.

5 (THEREUPON, the witness was excused.)

6 MR. NUTTER: Do you have anything further, Mr.
7 Peterson?

8 MR. PETERSON: I don't.

9 MR. NUTTER: Does anyone have anything they wish to
10 offer in Case Number 5789?

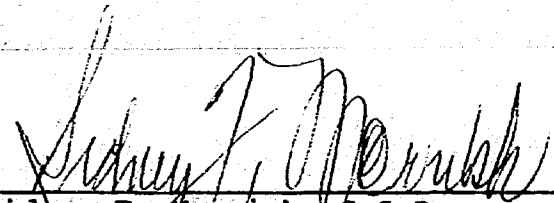
11 We will take the case under advisement.
12
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REPORTER'S CERTIFICATE

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


Sidney F. Morrish, C.S.R.

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 5789
heard by me on 10/27, 1976.

, Examiner
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. 5789
Order No. R-5311

APPLICATION OF AMOCO PRODUCTION
COMPANY FOR SALT WATER DISPOSAL
WELL, ROOSEVELT COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 27, 1976,
at Santa Fe, New Mexico, before Examiner, Daniel S. Nutter.

NOW, on this 4th day of November, 1976, the Commission,
a quorum being present, having considered the testimony, the
record, and the recommendations of the Examiner, and being fully
advised in the premises,

FINDS:

(1) That due public notice having been given as required
by law, the Commission has jurisdiction of this cause and the
subject matter thereof.

(2) That the applicant, Amoco Production Company, is the
owner and operator of the Swearingen "C" Well No. 2, located
in Unit M of Section 18, Township 5 South, Range 33 East, NMPM,
Peterson-Fusselman Pool, Roosevelt County, New Mexico.

(3) That the applicant proposes to utilize said well to
dispose of produced salt water into the Fusselman formation,
with injection into the perforated interval from approximately
8,313 feet to 8,464 feet.

(4) That the injection should be accomplished through
2 3/8-inch plastic lined tubing installed in a packer set at
approximately 8,260 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. 5789
Order No. R-5311

(5) That the injection well or system should be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 1700 psi.

(6) That the operator should notify the supervisor of the Hobbs district office of the Commission 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, Amoco Production Company, is hereby authorized to utilize its Swearingen "C" Well No. 2, located in Unit M of Section 18, Township 5 South, Range 33 East, NMPM, Peterson-Fusselman Pool, Roosevelt County, New Mexico, to dispose of produced salt water into the Fusselman formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 8,260 feet, with injection into the perforated interval from approximately 8,313 feet to 8,464 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 pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 1700 psi.

(3) That the operator shall notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

(4) That the operator shall immediately notify the supervisor of the Commission's Hobbs district office of the failure of the tubing, casing, or packer, in said well or the leakage

-3-

Case No. 5789
Order No. R-5311

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 Commission Rules and Regulations.

(6) 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


EMERY C. ARNOLD, Member


JOE D. RAMEY, Member & Secretary

S E A L

dr/

PETERSON PENN FIELD
ROOSEVELT CO., NEW MEXICO
SWEARINGEN "C" NO. 2

Perfs. 8313-18 & 8334-44
Acid. W/250 gal 15% HCl

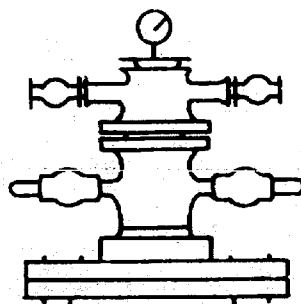
Perfs. 8448-64 Acid.
W/250 gal 15% HCl

*Fracs makes 50 BWPD
Penna #4 Swearingen
makes 190 BWPD*

*expects Fracs to take
w/1 on vac
may take
about 2000
psi*

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
AmOCO EXHIBIT NO. 3
CASE NO. 5789

TD 8656



8 1/2" 24# CSA 1962'
W/900 Sx Cmt.

2 3/8 int coated

Top Cmt. 6850'

*8300
2
1560.0*

7424-31 Perfs. Sq. Wolfcamp
W/50 Sx Cmt.

7835-45 Perfs. Sq. ~~Wolf~~
W/50 Sx Cmt.

2.30 4BW

2 3/8 Internally Coated Tub.

& Packer @ 8260'

Perfs. 8313-18

Perfs. 8334-44

Perfs. 8448-64

Drilled Out To 8475'

5 1/2" CSA 8477'

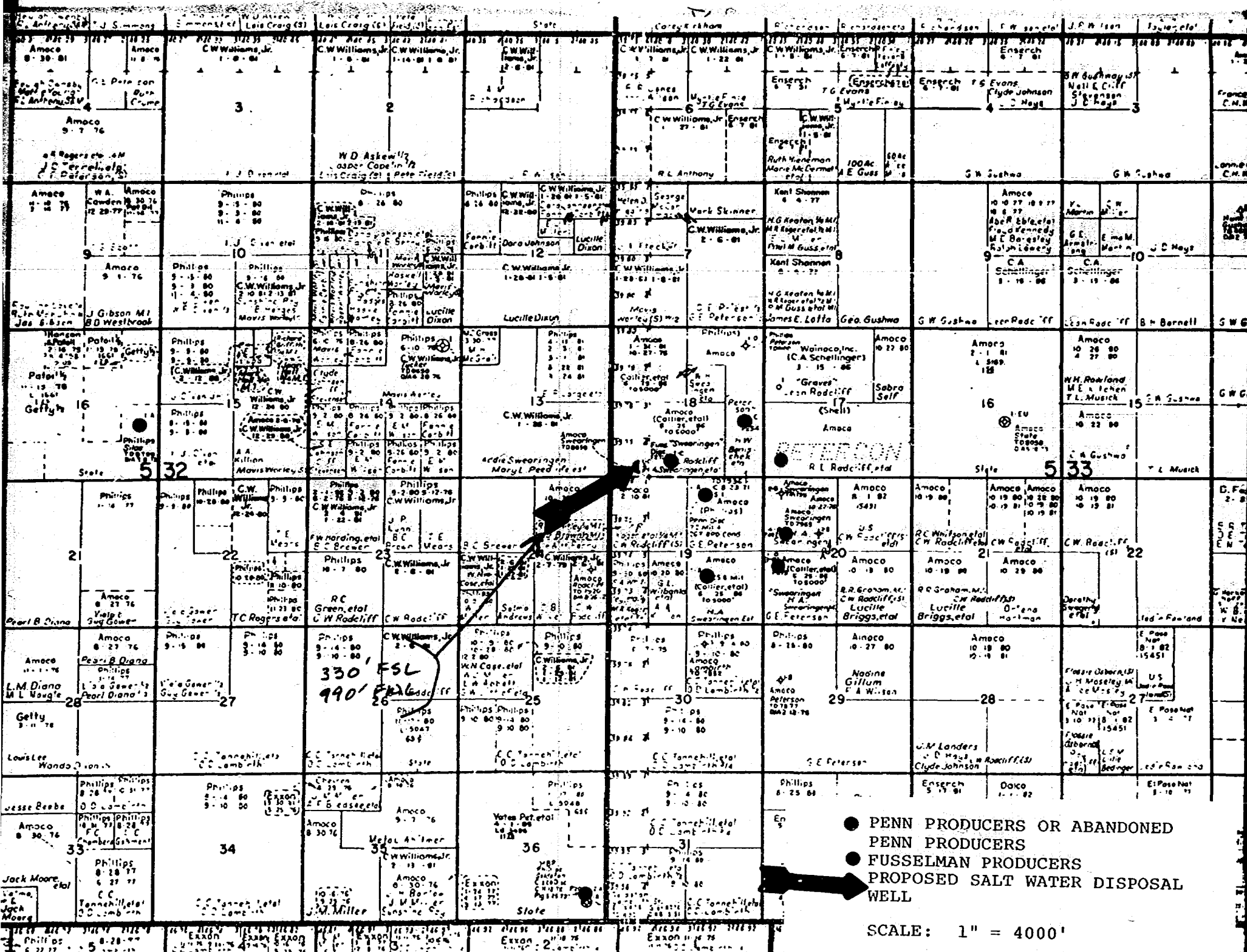
W/425 Sx Cmt.

*Loaded w/ treated
brine*

Penna

SUB 57 BW 213 BW OIL

Fracs.



ATWOOD, MALONE, MANN & COOTER
LAWYERS

JEFF D. ATWOOD [883-1960]
ROSS L. MALONE [810-1974]

P. O. DRAWER 700
SECURITY NATIONAL BANK BUILDING
ROSWELL, NEW MEXICO 88201
[808] 622-622

OCT 20 1976

CHARLES F. MALONE
RUSSELL D. MANN
PAUL A. COOTER
BOB F. TURNER
ROBERT A. JOHNSON
JOHN W. BASSETT
ROBERT E. SABIN
RUFUS E. THOMPSON
RALPH D. SHAMAS

October 19, 1976

Mr. Joe Ramey, Director
Oil Conservation Commission
State Land Office Building
Santa Fe, New Mexico 87501

RE: Examiner Hearing October 27, 1976

Dear Mr. Ramey:

Please find our enclosed Entry of Appearance in Case No. 5789.
Thank you and with best regards, I am,

Very truly yours,


Charles F. Malone

CFM:sgs
Enclosure

cc: Antone Peterson, Esquire
w/enc.


BEFORE THE OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION)
OF AMOCO PRODUCTION COMPANY FOR)
SALT WATER DISPOSAL WELL) CASE NO. 5789
PETERSEN-FUSSELMAN POOL, ROOSEVELT)
COUNTY, NEW MEXICO.)

ENTRY OF APPEARANCE

The undersigned Atwood, Malone, Mann & Cooter of
Roswell, New Mexico, hereby enter their appearance herein for
the Applicant, Amoco Production Company, with Antone Peterson,
Esquire, of Houston, Texas.

ATWOOD, MALONE, MANN & COOTER

By 
Attorneys for Amoco Production
Company
Post Office Drawer 700
Roswell, New Mexico 88201

Dockets Nos. 31-76 and 32-76 are tentatively set for hearing on November 10 and November 23, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 27, 1976

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

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

CASE 5768: (Continued from September 29, 1976, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Service Drilling Company, The Travelers Indemnity Company, and all other interested parties to appear and show cause why the Gonzales-Pittman Well No. 1, located in Unit M of Section 24, Township 21 North, Range 21 East, Mora County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 5785: (Continued from October 13, 1976, Examiner Hearing)

Application of Doyle Hartman for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Seven Rivers-Queen formation underlying the NE/4 NE/4, NW/4 NE/4, SW/4 NE/4, and SE/4 NE/4 of Section 19, Township 24 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico, to form four 40-acre proration units to be dedicated to four oil wells to be drilled at standard locations on said tracts. Also to be considered will be the cost of drilling and completing said wells 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 wells and a charge for risk involved in drilling said wells.

CASE 5574: (Reopened) (Continued from October 13, 1976, Examiner Hearing)

In the matter of Case 5574 being reopened pursuant to the provisions of Order No. R-5118 which order established a temporary special depth bracket allowable of 750 barrels of oil per day for the Eagle Mesa-Entrada Oil Pool, Sandoval County, New Mexico. All interested parties may appear and show cause why said special depth bracket allowable should not be rescinded.

CASE 5789: Application of Amoco Production Company for salt water disposal well, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Fusselman formation through the perforated interval from 8313 feet to 8538 feet in its Swearingen "C" Well No. 2 located in Unit M of Section 18, Township 5 South, Range 33 East, Petersen-Fusselman Pool, Roosevelt County, New Mexico.

CASE 5790: Application of Dome Petroleum Corporation for pool creation and assignment of a discovery allowable, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Entrada production and the assignment of approximately 58,770 barrels of oil discovery allowable to the discovery well, being the Federal 21 Well No. 1 located in Unit K of Section 21, Township 20 North, Range 5 West, McKinley County, New Mexico.

CASE 5791: Application of Texaco Inc. for a non-standard gas proration unit and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a 320-acre non-standard Eumont gas proration unit comprising the E/2 SE/4, SW/4 SE/4, and SE/4 SW/4 of Section 23; the W/2 NW/4 of Section 25; and the E/2 NE/4 of Section 26, all in Township 19 South, Range 36 East, Lea County, New Mexico, to be simultaneously dedicated to applicant's William Weir Wells Nos. 1 and 2 at unorthodox locations in Unit E of said Section 25 and Unit N of said Section 23, respectively.

CASE 5792: Application of Dugan Production Corporation for Jamnhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Angels Peak-Gallup and Basin-Dakota production in the wellbore of its McAdams Well No. 3 located in Unit H of Section 34, Township 27 North, Range 10 West, San Juan County, New Mexico.

CASE 5793: Application of Dugan Production Corporation for an unorthodox gas well location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Sherman Edward Well No. 2A, to be drilled at a point 2500 feet from the North line and 510 feet from the West line of Section 3, Township 29 North, Range 5 West, Blanco Mesaverde Gas Pool, Rio Arriba County, New Mexico, the N/2 of said Section 3 to be dedicated to the well.

CASE 5776: (Continued & Readvertised)

Application of Continental Oil 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 James Ranch Unit Well No. 8 to be drilled at a point 1980 feet from the North line and 660 feet from the West line of Section 31, Township 22 South, Range 31 East, Los Medanos-Morrow Gas Pool, Eddy County, New Mexico, the N/2 of said Section 31 to be dedicated to the well.

CASE 5794: Application of Continental Oil Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the W/2 of Section 31, Township 22 South, Range 31 East, Los Medanos Field, Eddy County, New Mexico, to be dedicated to a well to be drilled at a standard location in Unit L of said Section 31. 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 5795: Application of Continental Oil Company for an exception to the provisions of Order No. R-1670, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 21(A) of the General Rules and Regulations for the prorated gas pools of Northwestern New Mexico contained in Order No. R-1670, to permit the reporting of Basin Dakota production from wells on its Northeast Haynes Lease in Township 24 North, Range 5 West, Rio Arriba County, New Mexico, without the necessity of separately measuring the production from each well.

CASE 5777: (Continued & Readvertised)

Application of Gifford & Mitchell and M. B. Wisenbaker for pool creation, pool rules, and a non-standard gas spacing unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new gas pool for Pennsylvanian production for its Horse Back Well No. 1 located 1000 feet from the South line and 1980 feet from the East line of Section 33, Township 26 South, Range 36 East, Lea County, New Mexico, the promulgation of pool rules therefor, including a provision for 640-acre spacing and approval for a 589.52-acre non-standard gas spacing unit comprising all of partial Sections 33 and 34 of the aforesaid township.

Docket No. 30-76

Dockets Nos. 31-76 and 32-76 are tentatively set for hearing on November 10 and November 23, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - THURSDAY - NOVEMBER 4, 1976

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

CASE 5743: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit John W. Adams, Executor of Estates of R. W. and June Adams; and Ruth McGahey, Fred McGahey and David McGahey dba Adams & McGahey, American Employers' Insurance Company, and all other interested parties to appear and show cause why the following wells located in Township 21 North, Range 30 East, Harding County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program:

Gonzales Well No. 2, located in Unit P of Section 9; Adams & McGahey Well No. 1, located in Unit B of Section 16; and Gonzales "A" Well No. 1, located in Unit H of Section 32.

Upon application of John W. Adams, this case will be heard De Novo pursuant to the provisions of Rule 1220.

SULL- Case 5789
Date - 10/25/76 Form C-108
Revised 1-1-65

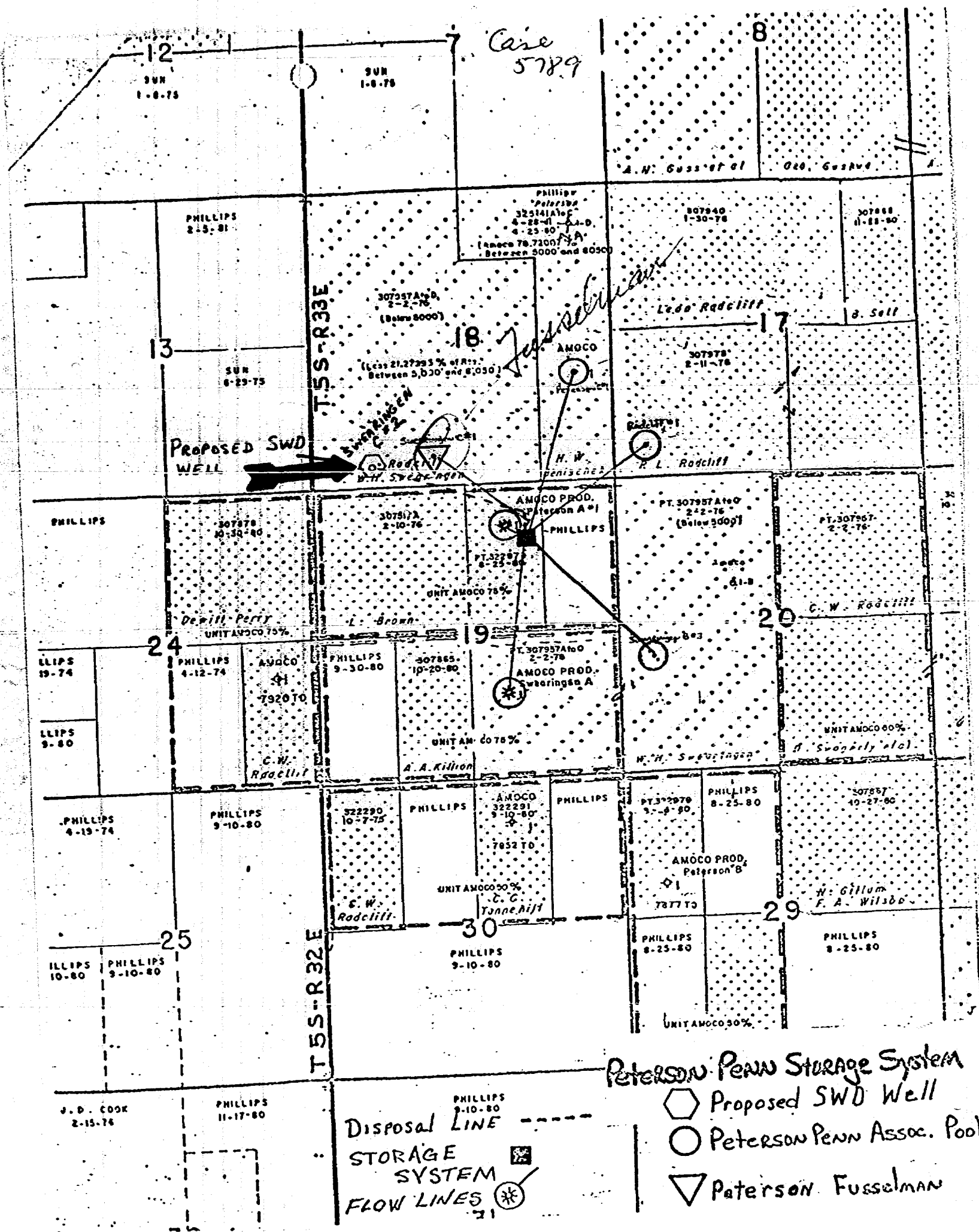
NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR Amoco Production Company		ADDRESS P. O. Drawer A, Levelland, TX 79336			
LEASE NAME Swearingen "C"	WELL NO. 2	FIELD Peterson Penn <i>Fusselman</i>	COUNTY Roosevelt		
LOCATION UNIT LETTER <u>M</u> ; WELL IS LOCATED <u>330</u> FEET FROM THE <u>South</u> LINE AND <u>990</u> FEET FROM THE <u>West</u> LINE, SECTION <u>18</u> TOWNSHIP <u>5-S</u> RANGE <u>33-E</u> NMPM.					
CASING AND TUBING DATA					
NAME OF STRING SURFACE CASING	SIZE 8-5/8"	SETTING DEPTH 1962'	SACKS CEMENT 900	TOP OF CEMENT Circ to Surf	TOP DETERMINED BY
INTERMEDIATE					
LONG STRING	5-1/2"	8477'	425	6850'	Temp Survey
TUBING			NAME, MODEL AND DEPTH OF TUBING PACKER		
NAME OF PROPOSED INJECTION FORMATION Fusselman		TOP OF FORMATION 8116'		BOTTOM OF FORMATION 8580	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PROPOSED INTERVAL(S) OF INJECTION 8313-18', 8334-44', 8448-64', 8472-84', 8528-38', 8313' to 8538' non continuous			
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil production		HAS WELL EVER BEEN PERFORMED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes		
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH INTERVALS 7835-45' and 7424-31' will be squeezed off with 50-100 Sx each zone on re-entry of well.					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 200'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 7963 - Cisco		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 50	MINIMUM 500	MAXIMUM 500	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity Anticipated	APPROX. PRESSURE (PSI) None
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE - Yes			WATER TO BE DISPOSED OF Yes	NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? Yes
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Mrs. David Graves, P. O. Box 63, Elida, New Mexico 88116					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL None					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? Yes					
SURFACE OWNER Yes		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes		THE NEW MEXICO STATE ENGINEER Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) Yes		ELECTRICAL LOG Yes		DIAGRAMMATIC SKETCH OF WELL Yes	

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

R. W. Cox R. W. Cox Administrative Assistant 9-28-76
(Signature) (Title) (Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well. 012-NMOC-1401 accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days 1-NMOC-1401 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, 1-Div. if the applicant so requests. SEE RULE 701.
1-Susp
1-RC





Amoco Production Company
RESEARCH CENTER
WATER ANALYSIS

Case 5789
T.S. or File No. 535.11
Lab. No. T-22,740
Field No. 1A-1526
API Well No.

LOCATION SAMPLED: Division Houston District Levelland
Operator (Plant) Amoco Production Co. Well No. 1 Lease Swearingen "C"
State (Province) Texas County (Parish) Roosevelt
Twp. 5S Rng. 33E Sec. 18 Quarter (Lsd.) Other (Meridian) 554' FSL & 2078' FWL
Sample collected from separator Wildcat () Field Well (x) Field name Peterson Penn
Interval sampled 7841 to 7849 Date 6-15-76 Sample collected by B. Baker
Recovery Fusselman

Form 97 transmitted by V. E. Staley Date 6-18-76 Authorized by

ORGANIC CONSTITUENTS in mg/l				
	BOTTOM	MIDDLE	TOP	MUD
Benzene				
Toluene				
HC Gases				

DESCRIPTION OF SAMPLE
Sample used for detailed analyses
Date received
Condition as received
Color
Odor
Suspended solids
Bottom sediment
Oil or fluorescence

QUALITY OF SAMPLE			
	BOTTOM	MIDDLE	TOP
Chloride ion mg/l:			

COMMENTS:

Note - representative sample of water being produced from Fusselman zone perforations 7841'-7849' - well test 6-15-76 flow 235 BOPD with 20% water.

CONVENTIONAL MAJOR ION ANALYSIS

		Major Ions mg/l	% of Total Major Ions	Reaction Value meq/l	% of Total Reaction Value
CATIONS	Sodium Na ⁺	31,337	31.41	1,363.17	39.34
	Calcium Ca ⁺⁺	5,440	5.45	271.46	7.83
	Magnesium Mg ⁺⁺	1,190	1.19	97.82	2.83
	Potassium K ⁺				
ANIONS	Chloride Cl ⁻	60,600	60.73	1,708.92	49.32
	Bicarbonate HCO ₃ ⁻	420	.42	6.89	.20
	Sulfate SO ₄ ⁻	800	.80	16.64	.48
	Carbonate CO ₃ ⁻	0	0	0	0
TOTAL		99,787			

Total solids by evaporation 102,760 mg/l
NaCl resistivity equivalent (Dunlap) 99,998 mg/l
Resistivity .076 ohm-meters at 77 °F
pH 7.1 Specific gravity 1.071 at 78 °F
Ryznar stability index (2pHs-pH) at °F

OTHER IONS AND DISSOLVED SOLIDS

CATIONS	mg/l	ANIONS	mg/l	OTHERS	mg/l

REMARKS AND CONCLUSIONS:

RECEIVED	
Levelland Area	
JUL 22 1976	
VES	
DLW	
CDC	
CCG	
AMG	
ORW	
KFS	
HSM	
BGW	
2	
FILED	

CC: W. V. Grisham
J. E. Harrison
V. E. Staley
G. W. Schmidt

Analyst

J. E. Harrison

Date

7-16-76

nf



Amoco Production Company
ENGINEERING CHART

Case 5789.

SHEET NO. OF

FILE WF

APPN

DATE 7-14-76

BY WED

SUBJECT Swearingen C No 2

330' FSL i 990' FWL, Sec. 18, T-5-S, R-33-E

KB. 4434

GL. 4424' Permanent Datum

Log. measured from KB. 10' abv GL.

8 5/8" 24" K-55

CSA 1962' w/ 900 sk

cmt. cir. {12 1/2" hole}

Top cmt. 6850'

Perf 7424'-31'

Wolfcamp

Perf 7835'-45'
2 JSPF

Cisco

Perf 8313'-18'
2 JSPF

Fusselman

5 1/2" 14 1/2" K-55

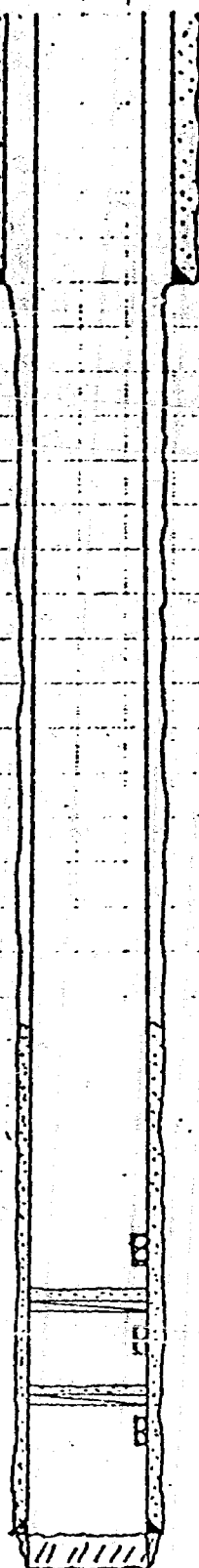
CSA 8477' w/ 425 sk

Top cmt. by temp. survey 6850' {7 1/8" hole}

CIBP @ 7770
cur. w/ 35' cmt.

CIBP @ 8260
cur. w/ 35' cmt.

TD 8656



Form C-108
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

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

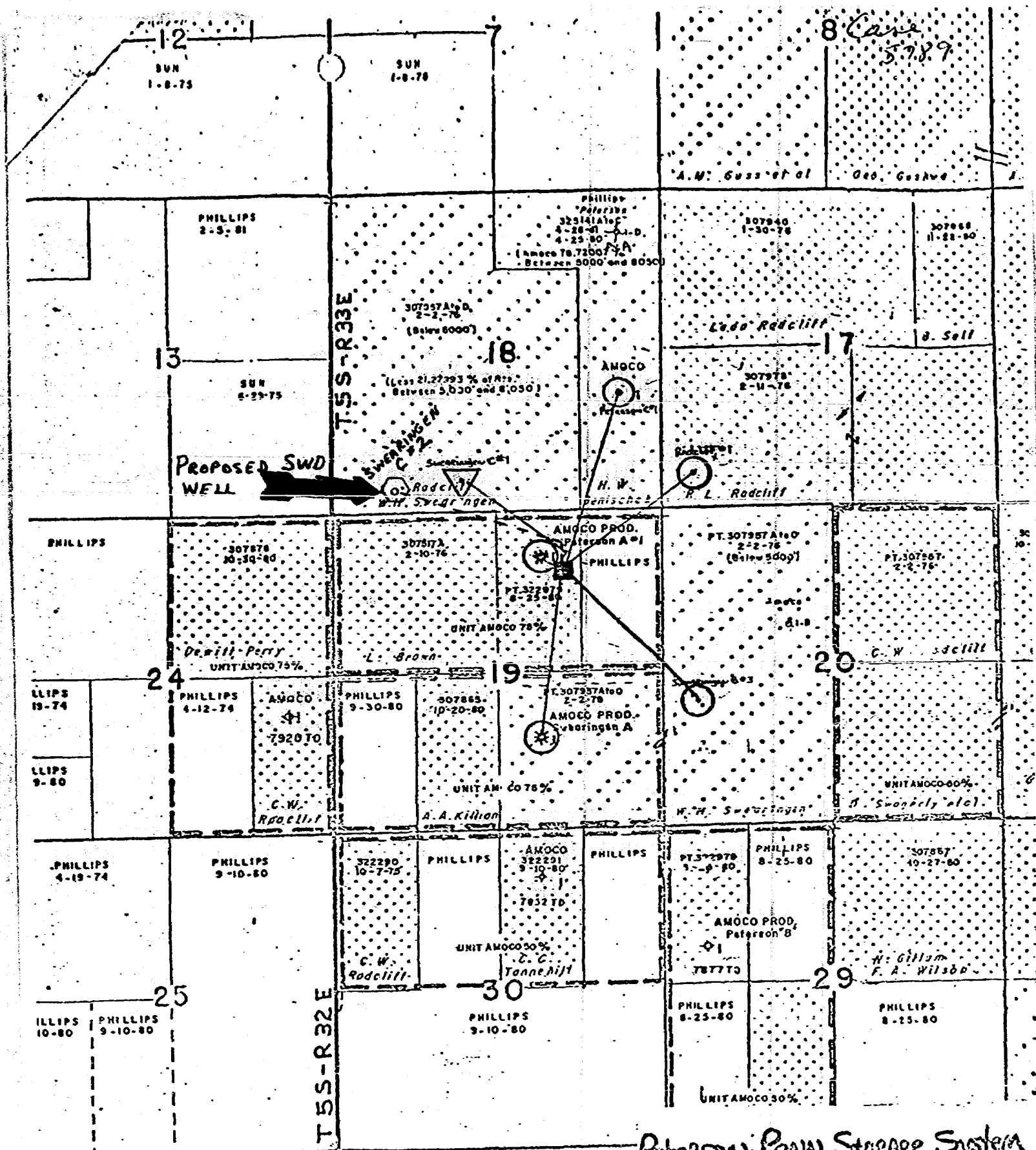
OPERATOR Amoco Production Company		ADDRESS P. O. Drawer A, Levelland, TX 79336	
LEASE NAME Swearingen "C"	WELL NO. 2	FIELD Peterson Penn	COUNTY Roosevelt
LOCATION UNIT LETTER M : WELL IS LOCATED 330 FEET FROM THE South LINE AND 990 FEET FROM THE West LINE, SECTION 18 TOWNSHIP 5-S RANGE 33-E NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8-5/8"	1962'	900	Circ to Surf	
INTERMEDIATE					
LONG STRING	5-1/2"	8477'	425	6850'	Temp Survey
TUBING			NAME, MODEL AND DEPTH OF TUBING PACKER		
NAME OF PROPOSED INJECTION FORMATION Fusselman			TOP OF FORMATION 8116'		BOTTOM OF FORMATION 8580
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PROPOSED INTERVAL(S) OF INJECTION 8313-18', 8334-44', 8448-64', 8472-84', 8528-38' 8313' to 8538' non continuous			
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil production		HAS WELL EVER BEEN PERFORMED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH INTERVAL Intervals 7835'-45' and 7424'-31' will be squeezed off with 50-100 Sx each zone on re-entry of well.					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 200'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 7963 - Cisco		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None	
ANTICIPATED DAILY INJECTION VOLUME (BBL/S.) 50	MINIMUM 500	MAXIMUM 500	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity Anticipated	APPROX. PRESSURE (PSI) None
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE - Yes			WATER TO BE DISPOSED OF Yes		NATURAL WATER IN DISPOSAL ZONE Yes
ARE WATER ANALYSES ATTACHED? Yes					
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Mrs. David Graves, P. O. Box 63, Elida, New Mexico 88116					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL None					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
Yes		Yes		Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA		ELECTRICAL LOG	
Yes		Yes		Yes	
				THE NEW MEXICO STATE ENGINEER	
				Yes	
				DIAGRAMMATIC SKETCH OF WELL	
				Yes	

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Ray W. Cox **R. W. Cox** Administrative Assistant 9-28-76
(Signature) (Title) (Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well. 012-NMCCC-Hot accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days 1-NMSE 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, 1-Mas.D.Gene 1-Div. if the applicant so requests. SEE RULE 701. 1-Susp 1-RL



Peterson Penn Storage System

○ Proposed SWD Well
 ○ Peterson Penn Assoc. Pool
 ▽ Peterson Fusselman

DISPOSAL LINE
 STORAGE SYSTEM
 FLOW LINES



Amoco Production Company

ENGINEERING CHART

SUBJECT Swearingen "C" No. 2

Case 5789

SHEET NO. OF

FILE WT

APPN

DATE 7-14-76

BY WED

330' FSL / 990' FWL, Sec. 18, T-5-S, R-33-E

KB. 4434'

GL. 4424' Permanent Datum

Log. measured from KB. 10' abv GL.

8 5/8" 24# K-55

CSA 1962' w/ 900 sx

cmt. cir. {12 1/2" hole}

Top cmt. 6850'

Perf 7424'-31' Wolfcamp

Perf 7835'-45' Cisco
2 JSPP

Perf 8313'-18' Fusselman
2 JSPP

5 1/2" 14' 17" K-55

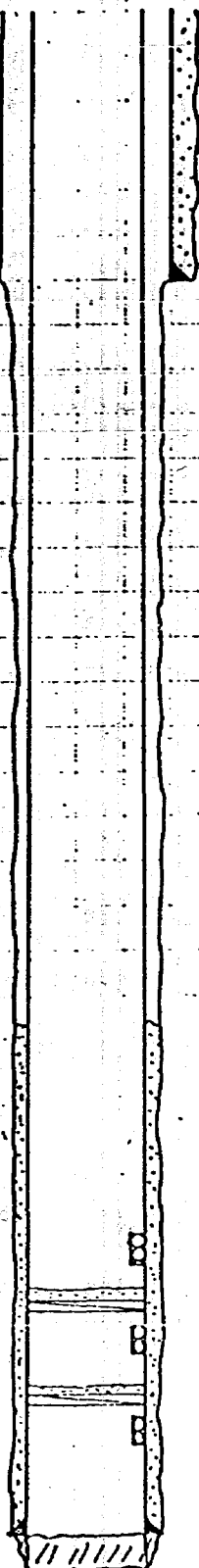
CSA 8477' w/ 425 sx

no cmt. b/c temp. surface 6850' {7 1/8" hole}

CIBP @ 7770
top of 35' cmt.

CIBP @ 8260
top of 35' cmt.

TD 8656





Amoco Production Company
RESEARCH CENTER
WATER ANALYSIS

Case 5789
T.S. or File No. 535.11
Lab. No. T-22,740
Field No. LA-1526
API Well No. _____

LOCATION SAMPLED: Division Houston District _____ Area Levelland
Operator (Plant) Amoco Production Co. Well No. 1 Lease Swearingen "C"
State (Province) Texas County (Parish) Roosevelt
Twp. 5S Rng. 33E Sec. 18 Quarter (Lsd.) _____ Other (Meridian) 554' FSL & 2078' FWL
Sample collected from separator Wildcat () Field Well (x) Field name Peterson Penn
Interval sampled 7841 to 7849 Date 6-15-76 Sample collected by B. Baker
Recovery _____ Interval name Fusselman

Form 97 transmitted by V. E. Staley Date 6-18-76 Authorized by _____

ORGANIC CONSTITUENTS in mg/l

	BOTTOM	MIDDLE	TOP	MUD
Benzene				
Toluene				
HC Gases				

DESCRIPTION OF SAMPLE

Sample used for detailed analyses _____
Date received _____
Condition as received _____
Color _____
Odor _____
Suspended solids _____
Bottom sediment _____
Oil or fluorescence _____

QUALITY OF SAMPLE

	BOTTOM	MIDDLE	TOP
Chloride on mg/l:			

COMMENTS:

Note - representative sample
of water being produced
from Fusselman zone
perforations 7841'-7849'-
well test 6-15-76 flow
235 BOPD with 20% water.

CONVENTIONAL MAJOR ION ANALYSIS

		Major Ions mg/l	% of Total Major Ions	Reaction Value meq/l	% of Total Reaction Value
CATIONS	Sodium Na ⁺	31,337	31.41	1,363.17	39.34
	Calcium Ca ⁺⁺	5,440	5.45	271.46	7.83
	Magnesium Mg ⁺⁺	1,190	1.19	97.82	2.83
	Potassium K ⁺				
ANIONS	Chloride Cl ⁻	60,600	60.73	1,708.92	49.32
	Bicarbonate HCO ₃ ⁻	420	.42	6.89	.20
	Sulfate SO ₄ ⁻	800	.80	16.64	.48
	Carbonate CO ₃ ⁻	0	0	0	0
TOTAL		99,787			

Total solids by evaporation 102,760 mg/l
NaCl resistivity equivalent (Dunlap) 99,998 mg/l
Resistivity .076 ohm-meters at 77 °F
pH 7.1 Specific gravity 1.071 at 78 °F
Ryznar stability index (2pHs-pH) _____ at _____ °F

OTHER IONS AND DISSOLVED SOLIDS

CATIONS	mg/l	ANIONS	mg/l	OTHERS	mg/l

REMARKS AND CONCLUSIONS:

RECEIVED	
Levelland Area	
JUL 22 1976	
VES	
DLW	
CDC	
CCD	
AHG	
OHV	
KFS	
HSM	
BGW	
2	
Filo	

C: W. V. Grisham
J. E. Harrison
V. E. Staley
G. W. Schmidt

Analyst J. E. Harrison

Date 7-16-76 nf

Case 5789

OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OCT - 2 1976

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE October 1, 1976

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD X _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated _____
for the Amoco Production Co. Swearingen "C" #2-M 18-5-33
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,

Jerry Sexton

DRAFT

dr/

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 5789

Order No. R- 5311

APPLICATION OF AMOCO PRODUCTION COMPANY
FOR SALT WATER DISPOSAL WELL, ROOSEVELT
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 27, 1976
at Santa Fe, New Mexico, before Examiner, Daniel S. Nutter.

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

FINDS:

(1) That due public notice having been given as required by
law, the Commission has jurisdiction of this cause and the subject
matter thereof.

(2) That the applicant, Amoco Production Company,
is the owner and operator of the Swearingen "C" Well No. 2,
located in Unit M of Section 18, Township 5 South,
Range 33 East, NMPM, Peterson-Fusselman Pool,
Roosevelt County, New Mexico.

(3) That the applicant proposes to utilize said well to
dispose of produced salt water into the Fusselman
formation, with injection into the perforated interval
from approximately 8,313 feet to 8,464 feet.

(4) That the injection should be accomplished through 2 3/8-inch plastic lined tubing installed in a packer
set at approximately 8260 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.

(1) That the injection well or system should be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than ~~400~~¹⁷⁰⁰ psi.

(2) That the operator should notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

(3) 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.

(4) 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, Amoco Production Company, is hereby authorized to utilize its Swearingen "C" Well No. 2, located in Unit M of Section 18, Township 5 South, Range 33 East, NMPM, Peterson-Fusselman Pool, Roosevelt County, New Mexico, to dispose of produced salt water into the Fusselman formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 8,260 feet, with injection into the perforated interval from approximately 8,313 feet to 8,538 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 pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 1700 psi.

(3) That the operator shall notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

(4) That the operator shall immediately notify the supervisor of the Commission'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 Commission Rules and Regulations.

(6) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

