

CASE NO.

7548

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APPLICATION,  
TRANSCRIPTS,  
SMALL EXHIBITS,  
ETC.

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
STATE LAND OFFICE BLDG.  
SANTA FE, NEW MEXICO  
7 July 1982

EXAMINER HEARING

IN THE MATTER OF:

Application of Tahoe Oil & Cattle Co.  
for salt water disposal, Lea County,  
New Mexico.

CASE  
7548

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation  
Division:

W. Perry Pearce, Esq.  
Legal Counsel to the Division  
State Land Office Bldg.  
Santa Fe, New Mexico 87501

For the Applicant:

William F. Carr, Esq.  
CAMPBELL, BYRD, & BLACK P. A.  
Jefferson Place  
Santa Fe, New Mexico 87501

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I N D E X

KENNETH A. FREEMAN

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MR. STAMETS: Call next Case 7548.

MR. PEARCE: That is the application of  
Tahoe Oil and Cattle Company for salt water disposal, Lea  
County, New Mexico.

MR. CARR: May it please the Examiner,  
my name is William F. Carr, with the law firm of Campbell,  
Byrd, and Black, P. A., of Santa Fe, New Mexico, appearing  
on behalf of the applicant.

I have one witness who needs to be sworn.

(Witness sworn.)

KENNETH A. FREEMAN

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

DIRECT EXAMINATION

BY MR. CARR:

Q Will you state your name and place of  
residence?

A Kenneth A. Freeman. I live at 4400 Andrews  
Highway in Midland, Texas.

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



1  
2 A By Tahoe Oil and Cattle Company and I'm  
3 a petroleum engineer.

4 Q Have you previously testified before this  
5 Commission or one of its examiners, and had your credentials  
6 accepted and made a matter of record?

7 A Yes, I have.

8 Q Are you familiar with the application filed  
9 in this case on behalf of Tahoe Oil and Cattle Company?

10 A Yes.

11 MR. CARR: Are the witness' qualifications  
12 acceptable?

13 MR. STAMETS: They are.

14 Q Mr. Freeman, will you briefly state what  
15 Tahoe seeks with this application?

16 A It seeks to use the Schwalbe No. 1 Well,  
17 which is currently a producing well in the San Andres zone  
18 in the Sawyer Field and to convert it to a disposal well and  
19 inject the water from the ARCO lease, which has two wells,  
20 and from the Schwalbe lease, which would have one well, into  
21 this existing No. 1 Well.

22 Q Have you prepared certain exhibits for  
23 in this case?

24 A Yes, I have.

25 Q Will you please refer to what has been

1  
2 marked for identification as Tahoe Exhibit Number One, identify  
3 this and review it for Mr. Stamets?

4 A This is the State of New Mexico Form C-108  
5 which was filled out in reference to this subject project  
6 that we're seeking approval on.

7 Q Will you now refer to Exhibit Number Two,  
8 identify this, and explain what it shows?

9 A Exhibit Number Two is a land plat, and you  
10 will note in Section 21 the Schwalbe No. 1 is circled. That  
11 is the proposed well we want to convert to an injection well,  
12 and then the dashed line around that would be called the area  
13 of interest.

14 Q Does this plat also show the lease owner-  
15 ship in the area?

16 A Yes, it does.

17 Q Does it also show all wells within two  
18 miles of the proposed injection well?

19 A Yes.

20 Q Will you now refer to Tahoe Exhibit Num-  
21 ber Three, identify this and explain what it shows?

22 A Exhibit Number Three is a listing of all  
23 the wells in the area, which shows their initial potential,  
24 where the casing was set, and the perforations, and the -- if  
25 they were acidized or fractured, and so forth.

1  
2 Q Now this shows all wells within the area  
3 of review which penetrate the injection zone, is that correct?

4 A Yes, it does.

5 Q Are there any other disposal wells in the  
6 area of review?

7 A No, there is not.

8 Q Will you now refer to Tahoe Exhibit Number  
9 Four, identify this and explain what it shows?

10 A Exhibit Number Four shows the area of re-  
11 view and at the top is where it starts, is a cross section.  
12 We have a cross section starting from one, and you can follow  
13 the arrows down. It basically goes from north to south and  
14 east to west across this area of review, and what we've done  
15 is cut our cross section. You can pull these apart and put  
16 them all together, and it shows that the San Andres zone is --  
17 continuity is very good; it shows up in all these wells; and  
18 also on our wellbores, the logs, it shows where these zones  
19 are perforated, where the San Andres zone is perforated.

20 Q Are any of the wells in this area -- or have  
21 any of the wells in this area been plugged and abandoned?

22 A Yes.

23 Q And which well is that?

24 A In the area of review it's the well in  
25 Section 21, the furthest to the north. It was the John L.

1  
2 Cox No. 1 Royal Well.

3 Q And have you reviewed the plugging inform-  
4 ation on that well?

5 A Yes, I have. Just to the left is the log  
6 of that well. I have gone to the Commission and got the  
7 plugging data on it, which if it is necessary, I can make  
8 available, and also if we go back to Exhibit Number Three,  
9 on the second page, the last well there, it asys the John L.  
10 Cox No. 1 Royal, R-Y-L, and it gives the information as to  
11 how it was completed.

12 Q And this shows how the well was in fact  
13 plugged?

14 A It just shows the completion. I have --  
15 I didn't include the plugging informatin. I do have it.

16 Q Would you refer to that and just briefly  
17 summarize for Mr. Stamets how this well was plugged?

18 A Yes, sir.

19 This information came from the Oil Conser-  
20 vation Commission files in Hobbs, and these was Form C-103  
21 filed on 6-8 of 1977, and it was approved August 9th, 1978.

22 It shows that the plugging operations be-  
23 gan on 5-11 of 1977. There was a cast iron bridge plug set  
24 at 4900 foot with 35 foot of cement put on top of the plug.

25 A 20-sack cement plug was spotted at 2250

1 feet.

2  
3 Another 20-sack cement plug was spotted  
4 at 1342 feet. They recovered 1315 feet of 4-1/2 inch casing  
5 which left 3690 feet in the hole.

6 Then they spotted a 75-sack cement plug  
7 at 464 foot. The top of the plug was at 325 foot.

8 Then a 10-sack plug was put at the surface  
9 with a marker, and the operation was completed on 5-14 of  
10 1977.

11 Q Has this well been adequately plugged so  
12 as to prevent the migration of injected fluids into any other  
13 horizon?

14 A Yes, it has.

15 MR. STAMETS: Let me ask you a question at  
16 this point. Would the cast iron bridge plug at 4900 feet be  
17 above the zone that you will be injecting into?

18 A Yes, it is.

19 MR. STAMETS: Okay, thank you.

20 Q Mr. Freeman, are there any other plugged  
21 and abandoned wells in the area of review?

22 A No, there is not.

23 Q What conclusions can you reach about the  
24 injection formation, the San Andres, based on your cross sec-  
25 tion?

1  
2 A This is a zone that covers several sections  
3 and Oil Development of Texas, which I believe is now Santa  
4 Fe Energy, they have on several occasions written the various  
5 operators -- we've attended two meetings -- it's under con-  
6 sideration for a waterflood. I'm of the opinion that it will  
7 waterflood and this subject well is on the edge of it and  
8 all we're proposing to do is to inject the produced water  
9 into the well to hold down the operating costs until the  
10 waterflood can become a reality.

11 Q And the San Andres, based on your cross  
12 section, would be a continuous zone across the -- throughout  
13 the area of review?

14 A Yes.

15 Q Will you now refer to Tahoe Exhibit Number  
16 Five and explain what this is and what it shows?

17 A All Exhibit Number Five is is a schematic  
18 drawing of the wellbore of the Schwalbe No. 1 in Unit P,  
19 Section 21, Township 9, Range 37, Lea County.

20 It shows where the 8-5/8ths casing was  
21 set; the amount of cement; where the 4-1/2 was set; the per-  
22 forations; and if this is approved, this is how we would pre-  
23 pare the well, or in other words, we would pull out the pro-  
24 ducing equipment and run internally plastic-coated 2-3/8ths  
25 tubing with a packer set at 4900 foot and it gives the existing

1  
2 perforations at 4932 to 4992. That would be the interval in  
3 which the water would be injected.

4 Q Would you fill the annulus with an inhi-  
5 bited fluid?

6 A Yes, we would, between the tubing and the  
7 4-1/2 inch casing.

8 Q And you would equip this with gauges to  
9 show if there was any leak developed?

10 A Yes. In this schematic I have a gauge  
11 on the tubing, a gauge on the 4-1/2 -- 2-1/2 inch tubing  
12 annulus, and then have a gauge that's already installed on  
13 the Bradenhead.

14 Q Now, Mr. Freeman, you've indicated that the  
15 water you propose to dispose in this well is produced from  
16 this -- the same lease and adjoining leases, is that correct?

17 A Yes.

18 Q And from what formation is this water being  
19 produced?

20 A From the San Andres.

21 Q What are you presently doing with this  
22 water?

23 A It's being stored at two surface tanks.  
24 They're open top tanks, fiberglass tanks, and it's being  
25 hauled by Kenneth's Tank Service at Crossroads, New Mexico,

1

2 about three miles to Santa Fe Energy. They have a disposal  
3 well, and it is being trucked over there and disposed of.

4 Q What volumes do you propose to inject in  
5 this well?

6 A Our application was -- we've asked for --  
7 our anticipated injection volume would be a minimum of 50  
8 barrels a day to an anticipated high of 200 barrels a day.

9 Q And so the maximum daily injection rate  
10 would be 200 barrels?

11 A Yes.

12 Q And this, what is the current production  
13 from the leases that you -- from which you plan to inject  
14 water?

15 A Currently it's running 75 to 100 barrel  
16 a day from all the leases that we operate in that area.

17 Q Are you proposing to have an open or  
18 closed system?

19 A We're proposing to have an open system  
20 and keep an oil blanket on top of our existing fiberglass  
21 tanks.

22 Q Will you be injecting under pressure or  
23 gravity?

24 A I assume that it will take 100 pounds to  
25 put the water away. It may take it on gravity, I'm not pos-



1  
2       itive.

3               Q               What is the maximum injection pressure  
4       that you propose to use?

5               A               Well, in our application we have stated  
6       2000 pounds, but with the -- realizing the gradient, frac  
7       gradient, and so forth, we would be prepared to have 1000  
8       pounds as the maximum pressure. We feel like we could live  
9       with that.

10                               I have discussed this with Santa Fe Energy's  
11       engineer, that represents the offset lease to the east, and  
12       he was of the opinion that it would be 1000 pounds or less,  
13       that they had no objection at all.

14               Q               And this would closely approximate two-  
15       tenths of a pound per foot to the top of the injection inter-  
16       val, is that correct?

17               A               Yes, it would, 1000 pounds.

18               Q               Would you refer to what has been marked  
19       for identification as your Exhibit Number Six and review this  
20       for Mr. Stamets?

21               A               Exhibit Number Six is water samples from  
22       the various wells that we operate in the Sawyer-San Andres  
23       Field.

24                               The first page is from the Schwalbe lease,  
25       which shows -- I'm just going into the chlorides. All these

1  
2 are basically the same, but we submitted this sample to Dow  
3 on 6-3 of '82, and it showed chlorides of 183,200 pounds,  
4 and this was taken from the Schwalbe lease.

5 Then on page two it shows -- this analysis  
6 was taken by Treatolite (sic). I requested them to do this.  
7 The chlorides was 136,000. It was off of the Schwalbe No. 1  
8 Well, and it was taken 3-31 of 1980.

9 Then I'd like to go to page three and this  
10 is a listing of the -- by Champion Chemical, the TP Federal,  
11 which is a one well lease, the ARCO 2, which is a two well  
12 lease, and then the Schwalbe 1 and 2, and these are water  
13 samples that were taken in 1978, and the chlorides are high,  
14 about 192,000 to a low of 174,000.

15 I'm trying to show with these water analy-  
16 ses that from 1978 until June 3rd of 1982, the water basically  
17 is the same. It has not changed. And this is the water that  
18 will be injected back -- it's produced from the San Andres and  
19 it would be re-injected back into the San Andres, so we're  
20 not adding any different type of water than what has actually  
21 come from the zone.

22 Q Are there fresh water zones in this area?

23 A No, not to my knowledge.

24 Q Would you refer to what has been marked

25 Tahoe Exhibit Number Seven and review this for Mr. Stamets?

1  
2 A Number Seven is a copy of the electric  
3 log, it's a sidewall neutron log, that we ran on the well  
4 when it was drilled in 1971. I think this is on file with  
5 the Commission but I have prepared the log for them, and  
6 some of the zones of interest is marked, the Yates zone, the  
7 San Andres, the top of the PI marker, and then the Slaughter  
8 pay.

9 It also illustrates where the perforations  
10 are in the Schwalbe No. 1 Well and it was acidized with 9000  
11 gallons, and what the initial potential was.

12 And then the last two pay zones is the  
13 induction log from the San Andres down. I just made copies  
14 of these for information.

15 Q Have you given notice to the offsetting  
16 operators of this application?

17 A Yes, I have.

18 Q And is a copy of your letter what has been  
19 marked Tahoe Exhibit Number Eight?

20 A Yes.

21 Q Now, referring to Exhibit Eight, Mr. Free-  
22 man, I note the letter dated November 13, 1981, and the return  
23 receipts, June of '82. Could you explain that discrepancy?

24 A Yes. Doug Carter, who signed the letter  
25 of November 13th, 1981, mailed the letter out and it was not

1  
2 certified, or asked it to be sent certified, so we redid this  
3 and sent it back out and I've come up here with this letter  
4 of November the 13th, but it states the same thing.

5 Q So the identical letter was mailed the  
6 first part of June?

7 A Yes.

8 Q And you -- these are the return receipts  
9 that were given back?

10 A Yes, it is.

11 Q Would you refer to the last page of Exhibit  
12 Number Eight and identify this for Mr. Stamets?

13 A Well, this page, like I said, I talked  
14 with the engineer for Santa Fe Energy Company, who is Anthony  
15 J. Walker, on originally when the letter of November 13th,  
16 1981, was mailed out, they returned this and said that they  
17 had an objection as being an offset operator.

18 And so I discussed this with them and the  
19 letter so states, that they're waiving their objection, if  
20 we hold our injection pressure down to 1000 pounds and do  
21 not exceed 200 barrels of water per day as the maximum rate,  
22 and the letter is self-explanatory on that.

23 Q Mr. Freeman, I'd like to refer you back to  
24 Exhibit Number Two. being the plat which was offered, and  
25 I would like for you to just identify who the offsetting

1 operators are to the proposed location.

2 A Well, to the north, the acreage that John  
3 L. Cox had is now owned by Ike Lovelady.

4 Then to the east is Oil Development, which  
5 is now Santa Fe Energy.

6 And then just to the north of that, Tahoe  
7 Oil and Cattle has that 80 acres there.

8 Then to the southeast Oil Development  
9 Company has that, or Santa Fe Energy, whatever we want to  
10 call it today, and John L. Cox.

11 Then to the south is Santa Fe Energy again  
12 and Tahoe Oil and Cattle Company.

13 Q So you have return receipts back from  
14 each of the offsetting operators indicating they received  
15 actual notice of this application?

16 A Yes, I have.

17 Q Are you aware of similar applications that  
18 have been granted for salt water disposal in this same general  
19 area or this same pool?

20 A I'm aware of one.

21 Q What is that?

22 A It was granted to Oil Development Corpor-  
23 ation, or Santa Fe Energy, and it was to the southeast. I  
24 believe it was located in Section 5, I'm not sure, but that  
25

1  
2 is where the existing produced water is now being trucked  
3 and disposed of.

4 Q That's the only other disposal well in the  
5 immediate area that you're aware of?

6 A Yes, it is.

7 Q Have you examined the available geologic  
8 and engineering data and have you found as a result of this  
9 examination any evidence of open faults or any other hydro-  
10 logic connections between the disposal zone and any other  
11 underground sources of drinking water?

12 A Yes, I've examined all the records.

13 Q And have you found any evidence of any  
14 fault which would put the disposal zone in communication  
15 with any other water source?

16 A No.

17 Q In your opinion will granting this appli-  
18 cation be in the best interest of conservation, the prevention  
19 of waste, and the protection of correlative rights?

20 A Yes, it will.

21 Q Were Exhibits One through Eight either  
22 prepared by you or under your direction and supervision?

23 A Yes, they were.

24 MR. CARR: At this time, Mr. Stamets, we  
25 would offer Tahoe Exhibits One through Eight into evidence.

1  
2 MR. STAMETS: These exhibits will be ad-  
3 mitted.

4 MR. CARR: I have nothing further on  
5 direct.

6  
7 CROSS EXAMINATION

8 BY MR. STAMETS:

9 Q Mr. Freeman, I was looking through the  
10 record here to determine whether or not you gave notice of  
11 this application to the surface owner in the area, and I  
12 thought that I had seen somewhere in here that you had, but  
13 I don't find that in the material that you submitted today.

14 A Sir, if you'll look at Exhibit Number  
15 Eight --

16 Q Okay.

17 A -- the second page, the return receipt  
18 received from Mr. R. E. Hardburger, 402 Avenue M, Beaver,  
19 Oklahoma.

20 Q Okay.

21 A That's the surface owner, sir.

22 Q All right.

23 A And he also owns the -- the land up there.

24 Q What type of equipment would you put on  
25 this well to assure us that the pressure did not exceed

1000 pounds?

A. What I have in mind if this is approved, is we would have a Simplex pump and have a pressure gauge with a maximum of 1000 pounds where it would kick out and wouldn't pump above that pressure on the thing. In other words --

Q. Pressure gauge or pressure limiting switch?

A. Pressure limiting switch.

Q. Okay.

A. And we'll have a gauge at the surface and I anticipate adding detergent to this to slick the water up, to also hold down these injection pressures.

Q. Okay.

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

Anything further in this case?

MR. CARR: Nothing further.

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

(Hearing concluded.)



## C E R T I F I C A T E

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 7548 heard by me on 7-7 19 82  
Richard P. Hammett, Examiner  
Oil Conservation Division

SALLY W. BOYD, C.S.R.

1000 199-8

State P.O. New Mexico 87504

Phone (505) 455-7409

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
STATE LAND OFFICE BLDG.  
SANTA FE, NEW MEXICO  
23 June 1982

EXAMINED HEARING

IN THE MATTER OF:

Application of Tahoe Oil & Cattle Co. for salt water disposal, Lea County, New Mexico.	CASE 7548
--	--------------

BEFORE:

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation Division:	W. Perry Pearce, Esq. Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501
---------------------------------------	---

For the Applicant:

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MR. NUTTER: The hearing will come to order.  
We'll call next Case Number 7548.

MR. PEARCE: The application of Tahoe Oil  
and Cattle Company for salt water disposal, Lea County, New  
Mexico.

MR. NUTTER: Applicant has requested con-  
tinuance.

Case Number 7548 will be continued to the  
Examiner Hearing scheduled to be held at this same place at  
9:00 o'clock a. m. July 7th, 1982.

(Hearing concluded.)

## C E R T I F I C A T E

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing Before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 7548, heard by me on 6/23 1982.

[Signature], Examiner  
Oil Conservation Division

SALLY W. BOYD, C.S.R.

1 Eon 194-B

Santa Fe, New Mexico 87501  
Phone (505) 435-7409

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
STATE LAND OFFICE BLDG.  
SANTA FE, NEW MEXICO  
47 June 1982

EXAMINER HEARING

IN THE MATTER OF:

Application of Tahoe Oil & Cattle Co.      CASE  
for salt water disposal, Lea County,      7548  
New Mexico.

BEFORE:      Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation  
Division:

W. Perry Pearce, Esq.  
Legal Counsel to the Division  
State Land Office Bldg.  
Santa Fe, New Mexico 87501

For the Applicant:

MR. STAMETS: We'll call next Case 7548.

MR. PEARCE: That is the application of  
Tahoe Oil & Cattle Company for salt water disposal, Lea  
County, New Mexico.

MR. STAMETS: At the request of the  
applicant this case will be continued until the June 23rd  
Examiner Hearing.

(Hearing concluded.)

## C E R T I F I C A T E

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 7548, heard by me on 6-9-1982.

Richard P. [Signature] Examiner  
Oil Conservation Division

SALLY W. BOYD, C.S.R.

Box 193-B  
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Phone (505) 433-7409

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
STATE LAND OFFICE BLDG.  
SANTA FE, NEW MEXICO  
14 April 1982

EXAMINER HEARING

IN THE MATTER OF:

Application of Tahoe Oil & Cattle  
Co. for salt water disposal, Lea  
County, New Mexico.

CASE  
7548

BEFORE: Richard L. Starnets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation  
Division:

W. Perry Pearce, Esq.  
Legal Counsel to the Division  
State Land Office Bldg.  
Santa Fe, New Mexico 87501

For the Applicant:



MR. STAMETS: Call next Case 7548.

MR. PEARCE: Application of Tahoe Oil &  
Cattle Company for salt water disposal, Lea County, New Mexico.

MR. STAMETS: At the request of the appli-  
cant this case will be continued to the June 9th Examiner  
Hearing.

(Hearing concluded.)

## C E R T I F I C A T E

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing Before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 7548 heard by me on 4-14 1982  
Richard L. [Signature], Examiner  
Oil Conservation Division

SALLY W. BOYD, C.S.R.

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BRUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

July 30, 1982

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Mr. William F. Carr  
Campbell, Byrd & Black  
Attorneys at Law  
Post Office Box 2208  
Santa Fe, New Mexico

Re: CASE NO. 7548  
ORDER NO. R-7038

Applicant:

Iahoe Oil & Cattle Co.

Dear Sir:

Enclosed herewith are two copies of the above-referenced  
Division order recently entered in the subject case.

Yours very truly,

  
JOE D. RAMEY  
Director

JDR/fd

Copy of order also sent to:

Hobbs OCD \_\_\_\_\_  
Artesia OCD \_\_\_\_\_  
Aztec OCD \_\_\_\_\_

Other \_\_\_\_\_

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. 7548  
Order No. R-7038

APPLICATION OF TAHOE OIL & CATTLE  
CO. 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 7, 1982, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 28th day of July, 1982, 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, Tahoe Oil & Cattle Co., is the owner and operator of the Schwalbe Well No. 1, located in Unit 1 of Section 21, Township 9 South, Range 37 East, NMPM, West Sawyer-San Andres Pool, Lea County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced salt water into the San Andres formation, with injection into the perforated interval from approximately 4932 feet to 4992 feet.

(4) That the injection should be accomplished through 2 3/8-inch plastic lined tubing installed in a packer set at approximately 4900 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 with a pressure limiting switch or other acceptable device which

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Case No. 7548  
Order No. R-7038

will limit the wellhead pressure on the injection well to no more than 1000 psi.

(6) That the Director of the Division should be authorized to administratively approve an increase in the injection pressure upon a proper showing by the operator that such higher pressure will not result in migration of the injected waters from the San Andres formation.

(7) 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.

(8) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

(9) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Tahoe Oil & Cattle Co., is hereby authorized to utilize its Schwalbe Well No. 1, located in Unit P of Section 21, Township 9 South, Range 37 East, NMPM, West Sawyer-San Andres Pool, Lea County, New Mexico, to dispose of produced salt water into the San Andres formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 4900 feet, with injection into the perforated interval from approximately 4932 feet to 4992 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 limiting switch or other acceptable device which will limit the wellhead pressure on the injection well to no more than 1000 psi.

(3) That the Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result

-3-

Case No. 7548  
Order No. R-7038

in migration of the injected fluid from the San Andres formation.

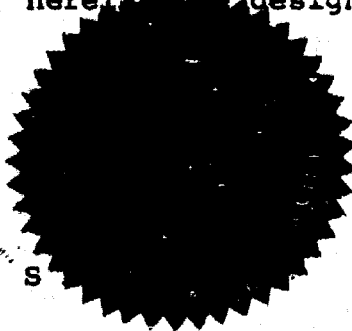
(4) That the operator shall notify the supervisor of the Hobbs district, office of the Division of the date and time of the installation of disposal equipment so that the same may be inspected.

(5) 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.

(6) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 702, 703, 704, 705, 706, 708, and 1120 of the Division Rules and Regulations.

(7) 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 herein designated.



STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
JOE D. RAMEY,  
Director

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage  
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: Tahoe Oil & Cattle Company  
Address: 4402 W. Industrial Avenue Midland, Texas 79703  
Contact party: K. A. Freeman Phone: (915) 697-7938
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no  
If yes, give the Division order number authorizing the project \_\_\_\_\_.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- XI. Attach a chemical analysis of fresh water from two or more (fresh water wells, if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

TAHOE EXHIBIT NO. 1  
CASE NO. 85-48

Submitted by FREEMAN  
Hearing Date 7/7/82

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Tahoe Oil & Cattle Company Title: Owner-Petroleum Engineer

Signature: K. A. Freeman Date: June 7, 1982

- If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

**III. WELL DATA**

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

**XIV. PROOF OF NOTICE**

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

**NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.**

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**NOTICE:** Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.



ALLISON

E. CROSSROADS

SAWYER

BEFORE EXAMINER STAMPS  
OIL CONSERVATION DIVISION

TANCO EXHIBIT NO. 2

CASE NO. 7238

Submitted by **FREEMAN**  
Hearing Date **7/7/32**



VI.

CASE 7548 - APPLICATION OF TAHOE OIL & CATTLE COMPANY FOR SALT WATER DISPOSAL,  
LEA COUNTY, NEW MEXICO.

OIL DEVELOPMENT CO. OF TEXAS #8 SANTA FE PACIFIC - 1980' FNL, 660' FEL, SECTION 28, IP FLOW 153 BOPD - COMP 12-4-'70, T.D. 5030' - CASING 8-5/8" @ 420' W/325 SX 4 1/2" @ 5030' W/250 SX. - PERF 4936' TO 4992' - AC W/5000 - NO WATER - EL 3980 K/B

OIL DEVELOPMENT CO. OF TEXAS - FEDERAL NO. 2-27 - 1980 FNL, 660' FNL SECTION 27, IP PUMP 84 BO & 29 BW COMP 12-28-76, T.D. 5024' - CASING 8-5/8" @ 427' - 4 1/2" @ 5024' W/250 SX., AC W/9000 - PERF 4950 to 5013 EL 3983

JOHN L. COX - T.P. FEDERAL NO. 2 - 860' FNL & 1980' FNL, SECTION 27, IP PUMP 78 BO & 12 BWPD, COMP. 9-15-'74, T.D. 5100' - CASING 8-5/8" @ 411' W/125 SX. - 4 1/2" @ 5100' W/2500 SX - PERF 4957' to 5007' AC W/5000 EL 3979

OIL DEVELOPMENT COMPANY OF TEXAS - FEDERAL "27" NO. 1 - 660 FNL & 660 FNL - SECTION 27 IP PUMP 166 BOPD, COMP. 8-11-'71, T.D. 5030' - P.B. 5015' - CASING 8-5/8" @ 458' W/325 SX - 4 1/2" @ 5030' W/250 SX - PERF 4944' to 4960' & 4979' to 4996' - AC W/215 & FRAC W/8000 GALS AW & 200 BEADS - EL 3980

TAHOE OIL & CATTLE COMPANY - NO. 2 ARCO FEDERAL - 660' FNL & 660' FEL - SECTION 28, IP PUMP 96 BO & 22 BWPD, COMP 1-23-'77 - T.D. 5037' - P.B. 5022' - CASING 8-5/8" @ 460' W/375 SX - 4 1/2" @ 5037' W/700 SX - PERF 4940 to 5004' - AC W/7000 & FRAC W/8000 - EL 3978

D & B OIL INC. NO. 1 ARCO - 66' FNL & 2180' FEL - SECTION 28, IP FLOW 120 BOPD - COMP 1-4-'71 - T.D. 5040' - CASING 8-5/8" @ 416' W/250 SX. - 4 1/2" @ 5040' W/375 SX, PERF 4920 to 4992 - AC W/9000 EL 3979

TAHOE OIL & CATTLE CO. NO. 2 - SCHWABE - 660' FNL & 1980' FEL - SECTION 21 - IP 36 BO & 20 BWPD - COMP 11-26-'77 - T.D. 5044' P.B. 5040' - CASING 8-5/8" @ 460' W/350 SX, 4 1/2" @ 5044' W/700 SX. PERF 4921' to 5006' AC W/7000 & FRAC W/6000 GAL & 12,000 SAND EL 3983

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

TAHOE EXHIBIT NO. 3

CASE NO. 7548

Submitted by FREEMAN

Hearing Date 7/7/'82

D & B OIL INC., NO. 1 SCHWALBE - 660' FSL & 560' FEL SECTION  
21 - IP 158 BOPD - COMP. 4-4-'71 - T.D. 5040' - CASING 8-5/8"  
@ 418' W/250 SX - 4 1/2" @ 5040' W/375 SX. PERF 4932' to 4954' &  
4976' to 4992' - AC W/9000 EL 3981

OIL DEVELOPMENT CO. OF TEXAS NO. 2 FEDERAL "22" - 660' FSWL -  
SECTION 22 - COMP. 10-29-'77 - IP PUMP 16 BOPD & 61 BWPD - T.D.  
5023' - CASING 8-5/8" @ 434' W/275 SX. - 4 1/2" @ 5023' W/1050 SX  
PERF 4920' to 4994' - AC W/9000 - EL 3983

OIL DEVELOPMENT CO. OF TEXAS NO. 1 FEDERAL "22" - 660 FSL & 1980'  
FWL - SECTION 22 - IP PUMP 21 BOPD & 62 BW - COMP 1-29-'71 - T.D.  
5050' P.B. 5031' - CASING 8-5/8" @ 450' W/325 SX. 4 1/2" @ 5050' W/  
250 SX. - PERF 4959' to 4982' AC W/6650 & 100# BEADS EL 3981

P+A JOHN L. COX NO. 1 ROIL - 2121' FNL - 519' FEL - SECTION 21 - IP/CAOF  
959,000 CFGPD - T.D. 5005' - COMP. 11-20-'73 - CASING 8-5/8" @ 424'  
W/325 SX - 4 1/2" 5005' W/250 SX PERF 4940' to 4992' AC W/7000 EL  
3987

5/11/77 CLPA 4900'

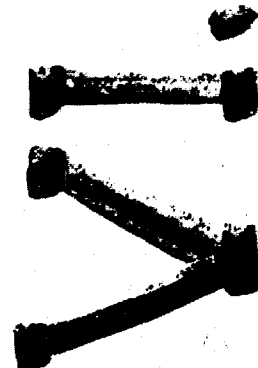
20 SX 2250'

20 SX 1342'

1115 Casing Retrieval

75 SX. 475'

10 SX Surface



Hearing Date 7/7/82

WEST SAWYER FIELD  
LEA CO., NEW MEXICO  
DATA ON WELLS IN AREA  
OF REVIEW  
SCALE 1"=500' 5-82  
(PLAT 8 DATA 8: A.O. Glover)

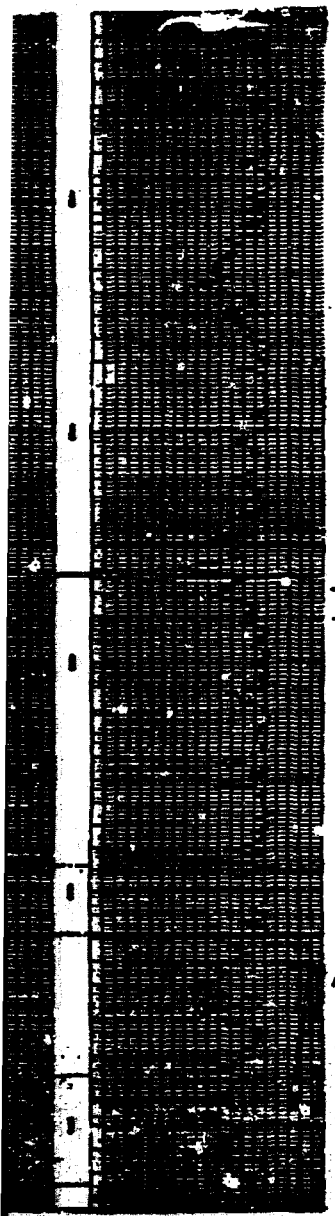
UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
WASH DC 20250

LEA COUNTY NEW MEXICO SOUTHERN U. P. R.  
OIL DEVELOPMENT CO. OF TEXAS 2 Federal "23" Com. Acct. CR DO  
Leak: 12 and 24/25 acre, 600' P. 100' x 120' 25-25-120

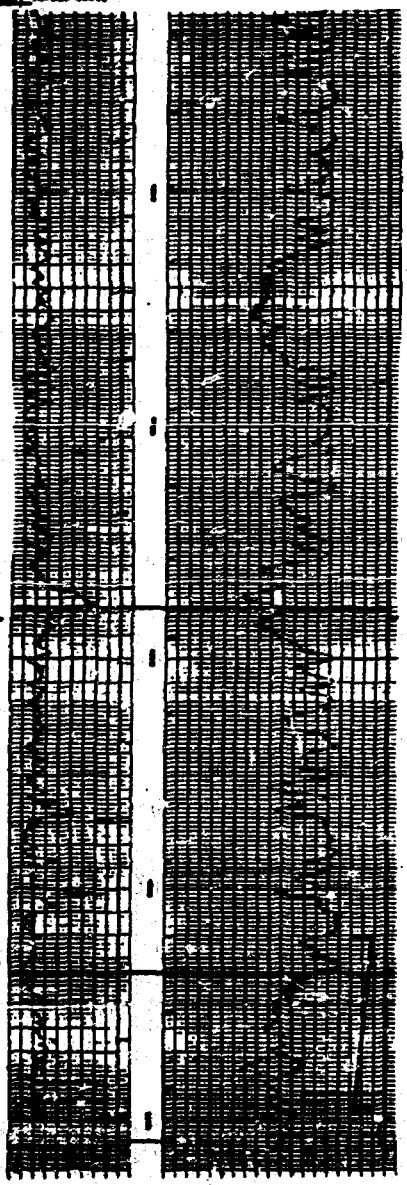
LEA COUNTY NEW MEXICO SOUTHERN U. P. R.  
OIL DEVELOPMENT CO. OF TEXAS 2 Federal "23" Acct. CR DO  
Leak: 12 and 24/25 acre, 600' P. 100' x 120' 25-25-120

1. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
2. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
3. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
4. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
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6. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
7. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
8. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
9. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
10. Section 23-25-120, 600' P. 100' x 120' 25-25-120.

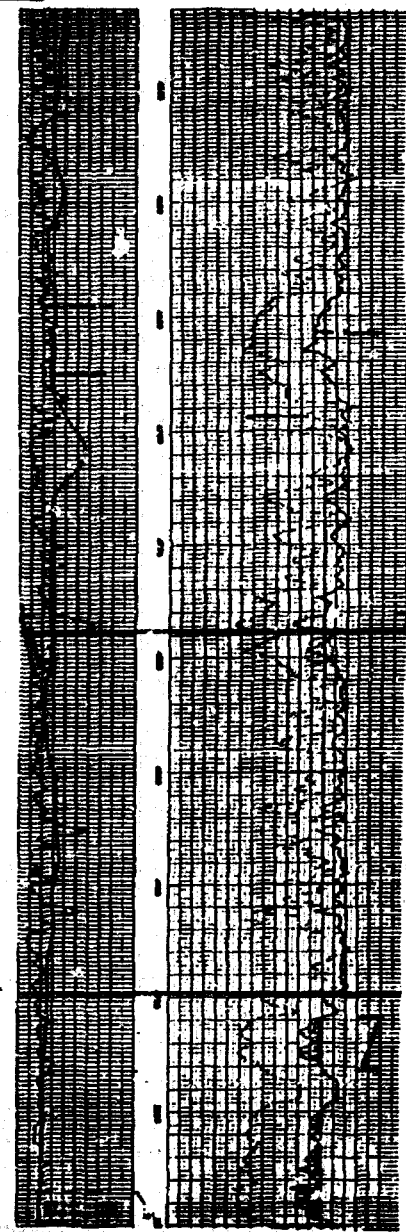
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2. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
3. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
4. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
5. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
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7. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
8. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
9. Section 23-25-120, 600' P. 100' x 120' 25-25-120.  
10. Section 23-25-120, 600' P. 100' x 120' 25-25-120.



P. 100' x 120' 25-25-120  
+  
4916 TO  
4992



P. 100' x 120' 25-25-120



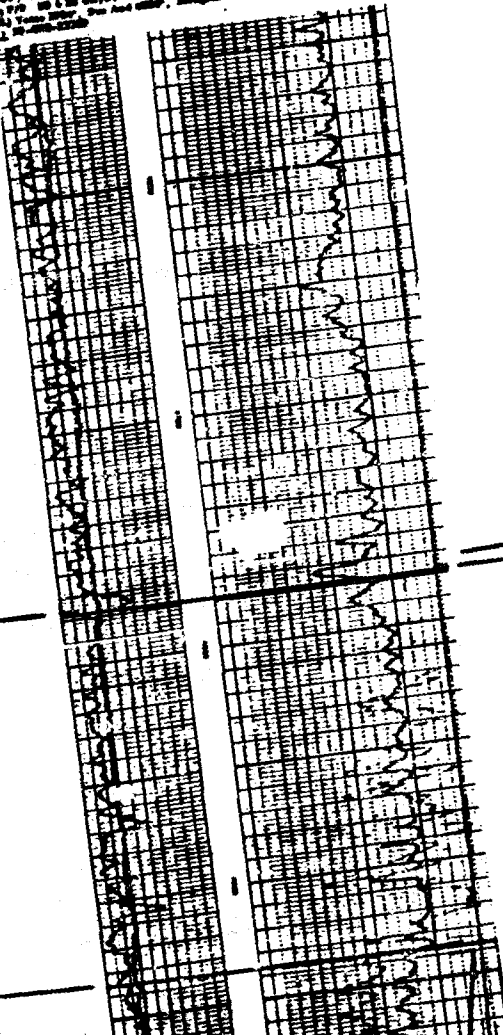
PI ZONE

SLAUGHTER PA

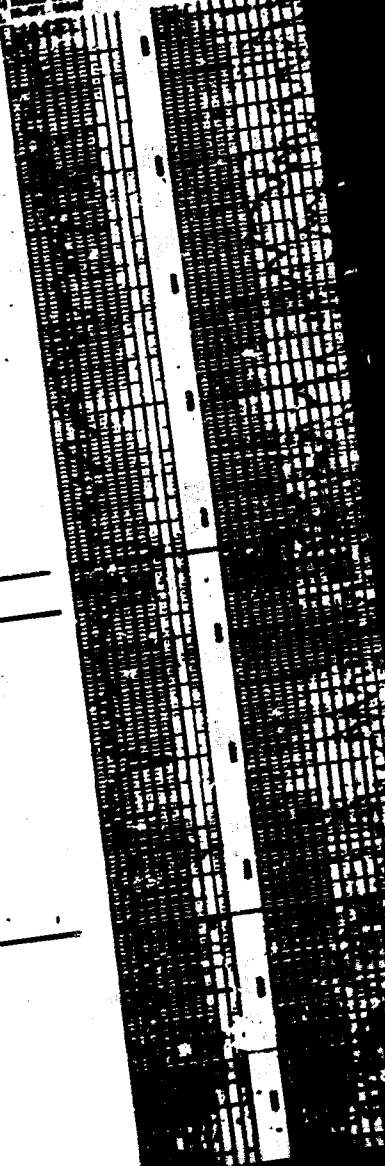
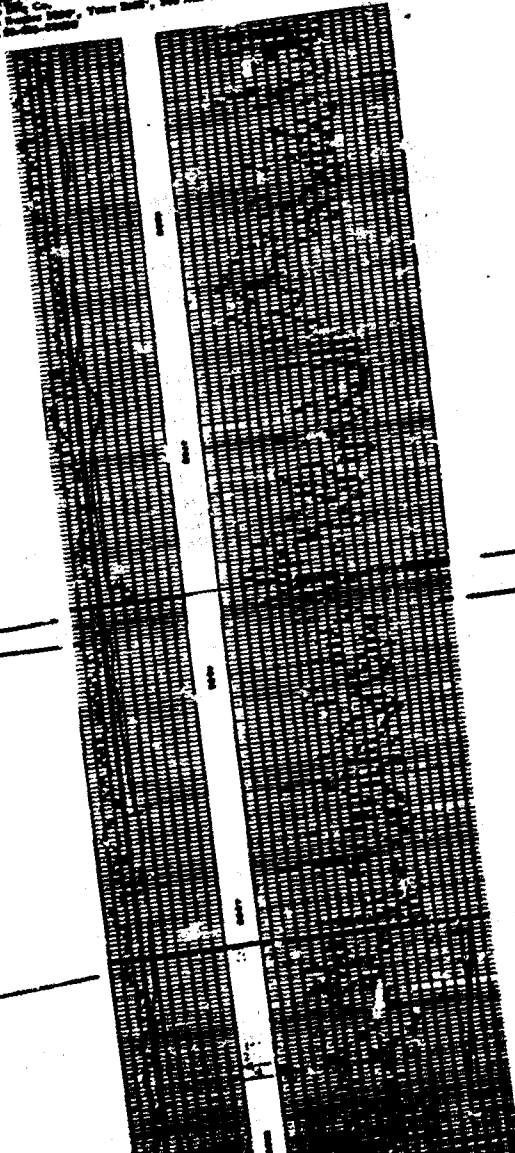
11-10-1992

[illegible][illegible][illegible][illegible][illegible]

TO: SECRETARY NEWARK  
FROM: TAMARON 3 CATTLE CO. 3 Suburban  
DATE: 10 21 1960 00P PER. SEC. 101 10-21-60

[illegible]

*Dani's*

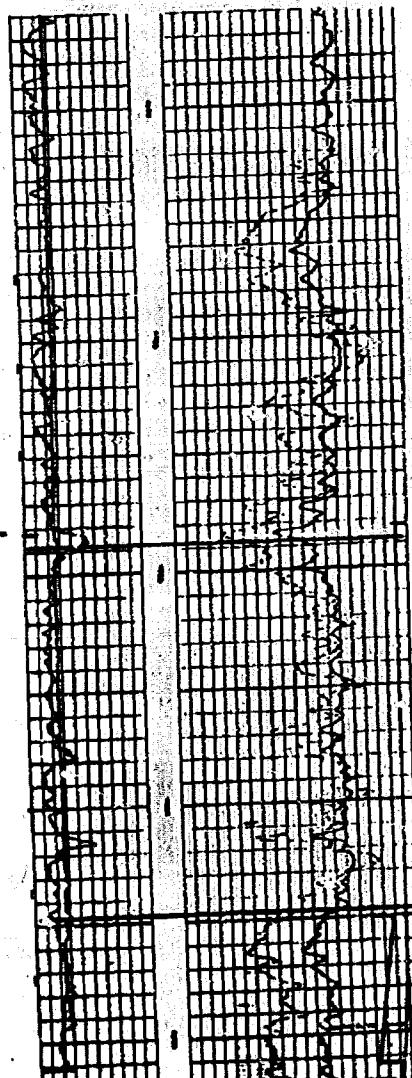


LABORATORY  
 UNIT: OIL DEVELOPMENT CO. OF TEXAS  
 Result: 100, 100  
 Lab: 11 ml 1/2 (Crown) 1000 PHL 1000 PHL 1000 PHL 1000 PHL

OIL DEV. CO. OF TEXAS NO. 2-27  
 FROM: 1980 FN-660 FWL  
 SAC 27 - 1P PUMP 8480 + 298W  
 COMP. 12-28-76 - 8 3/8" @ 427  
 4 1/2" @ 5034 W/950 SX - PARS  
 4980 TO 5013 - AC W/9000  
 FL. 3983 T.D. 5024

LABORATORY  
 UNIT: OIL DEVELOPMENT CO. OF TEXAS  
 Result: 100, 100  
 Lab: 11 ml 1/2 (Crown) 1000 PHL 1000 PHL 1000 PHL 1000 PHL

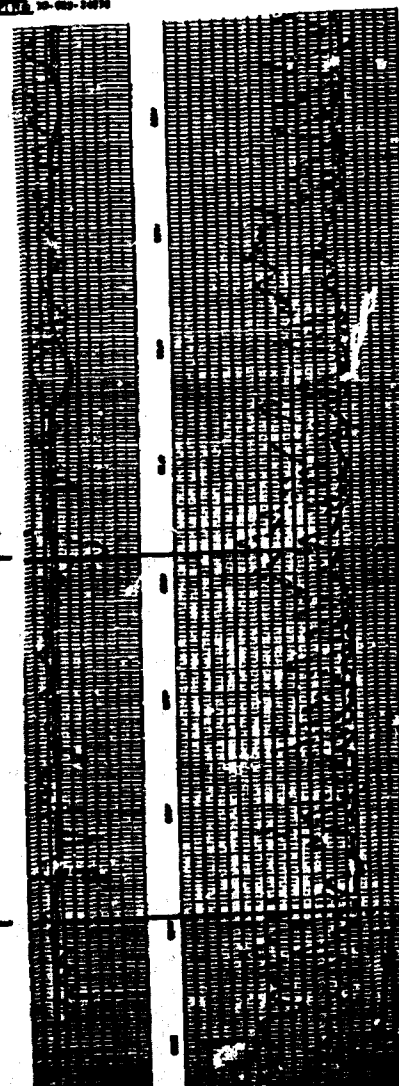
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 Unit: 10-76, Comp: 12-76, 1000 PHL 1000 PHL 1000 PHL 1000 PHL



PI ZONE

SLAUGHTER PLY

PARS



PARS

# TAHOE OIL & CATTLE CO.



III.

PHONE (915) 697-7938

4402 W. INDUSTRIAL

MIDLAND, TEXAS 79703

A.

Pressure gauges  
(Braden Head)

Schwalbe #1

Unit P Sec. 21, T9-S, R37-E

Lea County, New Mexico

660' PSL & 560' FEL

Elevation 3960.3'

8 5/8, 24" @ 418' (250 sx)  
Cement circulated

4 1/2" x 2 3/8" annulus  
Filled with inhibited fluid

calculated top of cnt. @ 2250'

2 3/8" tubing @ 4900' (internal  
plastic coated)

Baker AD-1 Tension Pkr. @ 4900'  
with 8000# tension

Perforations 4932' to 4992'

4 1/2" 9.5" @ 5040'  
Cmt. with 375 sx.

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

TAHOE EXHIBIT NO. 5

CASE NO. 7548

Submitted by FREEMAN

Hearing Date 7/7/82





# DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

An Operating Unit of The Dow Chemical Company

LABORATORY LOCATION

## API WATER ANALYSIS REPORT FORM

DATE

LAB NO.

Company <b>TANOE</b>		Sample No.		Date Sampled <b>6-3-82</b>	
Field		Legal Description <b>SEC 23 -</b>		County or Parish <b>LEA</b>	
State <b>LA</b>					
Lease or Unit <b>ARCO + SWARAT LEASE</b>	Well	Depth	Formation <b>IRON ANDREWS</b>	Water, B/D	
Type of Water (Produced, Supply, etc.)		Sampling Point			Sampled By

## DISSOLVED SOLIDS

## CATIONS

	mg/L	me/L
Sodium, Na (calc.)	<u>81200</u>	<u>3530</u>
Calcium, Ca	<u>12800</u>	<u>640</u>
Magnesium, Mg	<u>12200</u>	<u>1000</u>
Barium, Ba		

## ANIONS

Chloride, Cl	<u>183200</u>	<u>5170</u>
Sulfate, SO <sub>4</sub>		
Carbonate, CO <sub>3</sub>	<u>0</u>	
Bicarbonate, HCO <sub>3</sub>	<u>0</u>	

Total Dissolved Solids (calc.)

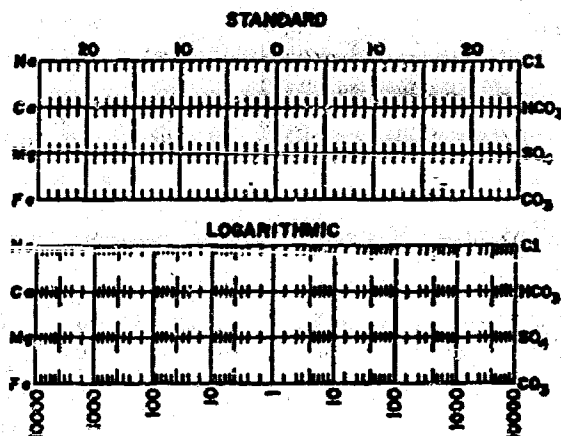
Iron, Fe (total)

Sulfide, as H<sub>2</sub>S

## OTHER PROPERTIES

pH 6.55  
 Specific Gravity, 60/60 F. 6.0  
 Resistivity (ohm-meters) 1.205 F.

## WATER PATTERNS — me/L



REMARKS &amp; RECOMMENDATIONS:

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

TANOE EXHIBIT NO. 6CASE NO. 7548Submitted by FREEMANHearing Date 7/7/82

# A



# TRETOLITE DIAMON

380 Marshall Avenue / Saint Louis, Missouri 63118  
(314) WH 1-9690 / TWX 910-780-1860 / Telex 44-2417

## WATER ANALYSIS REPORT

COMPANY Tahoe Oil & Cattle ADDRESS Kermit Tx. DATE 3-31-80

SOURCE Schwalbe #1 Wild Hole DATE SAMPLED 3-15-80 ANALYSIS NO.             
Analysis Mg/L \*Meq/L

- |  |               |  |  |
|--|---------------|--|--|
| 1. PH  | <u>4.8</u>    |  |  |
| 2. H <sub>2</sub> S (Qualitative)                  | <u>28 ppm</u> |  |  |
| 3. Specific Gravity                                | <u>1.175</u>  |  |  |
| 4. Dissolved Solids                                |               | <u>220,457</u>   |  |
| 5. Suspended Solids                                |               | <u>          </u>  |  |
| 6. Phenolphthalein Alkalinity (CaCO <sub>3</sub> ) |               | <u>0</u>   |  |
| 7. Methyl Orange Alkalinity (CaCO <sub>3</sub> )   |               | <u>100</u>   |  |
| 8. Bicarbonate (HCO <sub>3</sub> )                 |               | HCO <sub>3</sub> <u>122</u> ÷ 61 = <u>2</u> HCO <sub>3</sub> |  |
| 9. Chlorides (Cl)                                  |               | Cl <u>136,000</u> ÷ 35.5 = <u>3831</u> Cl                    |  |
| 10. Sulfates (SO <sub>4</sub> )                    |               | SO <sub>4</sub> <u>200</u> ÷ 48 = <u>4</u> SO <sub>4</sub>   |  |
| 11. Calcium (Ca)                                   |               | Ca <u>18,000</u> ÷ 20 = <u>900</u> Ca                        |  |
| 12. Magnesium (Mg)                                 |               | Mg <u>1458</u> ÷ 12.2 = <u>119</u> Mg                        |  |
| 13. Total Hardness (CaCO <sub>3</sub> )            |               | <u>51,000</u>  |  |
| 14. Total Iron (Fe)                                |               | <u>          </u>  |  |
| 15. Barium (Qualitative)                           |               |  |  |
| 16.  |               |  |  |

\*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION

900	Ca	←	HCO <sub>3</sub>	2	Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
119	Mg	←	SO <sub>4</sub>	4	Ca (HCO <sub>3</sub> ) <sub>2</sub>	81.04		2		162
2818	Na	←	Cl	3831	Ca SO <sub>4</sub>	68.07		4		272
					Ca Cl <sub>2</sub>	55.50		894		49,617
					Mg (HCO <sub>3</sub> ) <sub>2</sub>	73.17		-0-		-0-
					Mg SO <sub>4</sub>	60.19		-0-		-0-
					Mg Cl <sub>2</sub>	47.62		119		5,666
					Na HCO <sub>3</sub>	84.00		-0-		-0-
					Na <sub>2</sub> SO <sub>4</sub>	71.03		-0-		-0-
					Na Cl	58.46		2818		164,740

Saturation Values Distilled Water 20°C  
Ca CO<sub>3</sub> 13 Mg/L  
Ca SO<sub>4</sub> • 2H<sub>2</sub>O 2,090 Mg/L  
Mg CO<sub>3</sub> 103 Mg/L

Freeman

Respectfully submitted  
TRETOLITE COMPANY

Mark Adkins

B



# WATER ANALYSIS REPORT

BOX 4513  
ODESSA, TEXAS 79760

SERVICE LABORATORY: Odessa, Texas Phone (915) 362-2353 & 363-0863  
RESEARCH LABORATORY: Houston, Texas Phone (713) 431-2561  
PLANT: Odessa, Texas Phone (915) 362-2353 & 363-0863

REPORT FOR	James Sellars	DATE SAMPLED	10/3/78
CC	Clyde Harrison	DATE REPORTED	10/5/78
CC		FIELD, LEASE, OR WELL	as listed below
CC		COUNTY	N. Mex.
COMPANY	Tahoe Oil & Cattle Co.	FORMATION	
ADDRESS		DEPTH	
SERVICE ENGINEER	Troy Gladden	SUBMITTED BY	Troy Gladden

## CHEMICAL ANALYSIS (AS PARTS PER MILLION)

Chemical Component	Field, Lease, or Well				
	T.P. Federal #1	Arco #2	*Schwalbe #1	*Schwalbe #2	
Chloride (Cl)	192,000	166,000	187,000	174,000	
Iron (Fe)					
Water Hardness (CaCO <sub>3</sub> )	121,100	69,900	74,400	78,300	
Calcium (Ca)	24,800	15,400	16,240	17,160	
Magnesium (Mg)	14,361.3	7,630.2	8,213.4	8,602.2	
Bicarbonate (HCO <sub>3</sub> )	19.52	124.44	17.08	12.2	
Carbonate (CO <sub>3</sub> )	neg.	neg.	neg.	neg.	
Sulfate (SO <sub>4</sub> )	300	700	800	900	
Hydrogen Sulfide (H <sub>2</sub> S)	strong	mild	mild	0	
Specific Gravity					
Density, lb./gal.					
H - Meter [X] Strip [ ]	5.6	6.1	5.6	5.4	

### OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

Arco #1 and Clair #1 were down. Will catch samples ASAP.

C.

REPORTED BY Ginger Rohloff TITLE Chemist

21-59-37

\$10.

Reported By  
**Electrical Log Service**  
MINNESOTA, PHONE 76741

## REFERENCES

W 4913P



10

## COMPLETION RECORD

SPVD DATE

**CONFIDENTIAL**

**THE SUBSURFACE LIBRARY** •

**P. O. BOX 942**

**GET BEGON**

**MIDLAND, TEXAS 79701**

**APR 30-023-25726**

**CASPER REPORT**

**PROPAGATING RECORD**

**Figure 1**

Name		Address		City		State		Country	
1	John Doe	123 Main St	Anytown	CA	USA				
2	Jane Smith	456 Elm St	Smalltown	TX	USA				
3	Bob Johnson	789 Oak St	Big City	NY	USA				
4	Patricia Brown	101 Pine St	Midtown	IL	USA				
5	William Davis	202 Cedar St	Westside	WA	USA				
6	Elizabeth Miller	303 Birch St	Eastside	FL	USA				
7	James Wilson	404 Spruce St	Northside	OH	USA				
8	Mary Taylor	505 Willow St	Southside	PA	USA				
9	Charles Moore	606 Ash St	Central	MI	USA				
10	Barbara White	707 Hickory St	West	IN	USA				
11	Richard Black	808 Maple St	East	MO	USA				
12	Susan Green	909 Poplar St	South	NE	USA				
13	Robert Adams	1010 Cherry St	North	KS	USA				
14	Linda Baker	1111 Walnut St	Central	OK	USA				
15	Michael Evans	1212 Chestnut St	West	CO	USA				
16	Kimberly Hall	1313 Elm St	East	UT	USA				
17	Christopher King	1414 Oak St	South	NV	USA				
18	Amanda Lee	1515 Pine St	North	WY	USA				
19	Gregory Scott	1616 Cedar St	Central	MT	USA				
20	Michelle Turner	1717 Birch St	West	ND	USA				
21	Kevin Phillips	1818 Spruce St	East	SD	USA				
22	Deborah Campbell	1919 Willow St	South	NE	USA				
23	Anthony Parker	2020 Ash St	North	KS	USA				
24	Christina Evans	2121 Hickory St	Central	OK	USA				
25	Jonathan Reed	2222 Poplar St	West	CO	USA				
26	Stephanie Cook	2323 Cherry St	East	UT	USA				
27	Timothy Morgan	2424 Walnut St	South	NV	USA				
28	Rebecca Bell	2525 Elm St	North	WY	USA				
29	Brandon Howard	2626 Oak St	Central	MT	USA				
30	Vanessa Ward	2727 Pine St	West	ND	USA				
31	Justin Torres	2828 Cedar St	East	SD	USA				
32	Brittany Peterson	2929 Birch St	South	NE	USA				
33	Tyler Ramirez	3030 Spruce St	North	KS	USA				
34	Heather Ross	3131 Willow St	Central	OK	USA				
35	Eric Henderson	3232 Ash St	West	CO	USA				
36	Kimberly Young	3333 Hickory St	East	UT	USA				
37	Adam King	3434 Poplar St	South	NV	USA				
38	Michelle Wright	3535 Cherry St	North	WY	USA				
39	Christopher Lopez	3636 Walnut St	Central	MT	USA				
40	Stephanie Hill	3737 Elm St	West	ND	USA				
41	Jonathan Scott	3838 Oak St	East	SD	USA				
42	Rebecca Green	3939 Pine St	South	NE	USA				
43	Brandon Adams	4040 Cedar St	North	KS	USA				
44	Vanessa Baker	4141 Birch St	Central	OK	USA				
45	Justin Evans	4242 Spruce St	West	CO	USA				
46	Brittany Hall	4343 Willow St	East	UT	USA				
47	Tyler King	4444 Ash St	South	NV	USA				
48	Heather Lee	4545 Hickory St	North	WY	USA				
49	Eric Scott	4646 Poplar St	Central	MT	USA				
50	Kimberly Turner	4747 Cherry St	West	ND	USA				
51	Adam Cook	4848 Walnut St	East	SD	USA				
52	Michelle Morgan	4949 Elm St	South	NE	USA				
53	Christopher Bell	5050 Oak St	North	KS					

W.N.M.C.F. MICROGRAPHICS



BEST AVAILABLE COPY

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

~~TANOR~~ EXHIBIT NO. 7

CASE NO. 7548

Submitted by: FREEMAN

Hearing Date 7/7/82

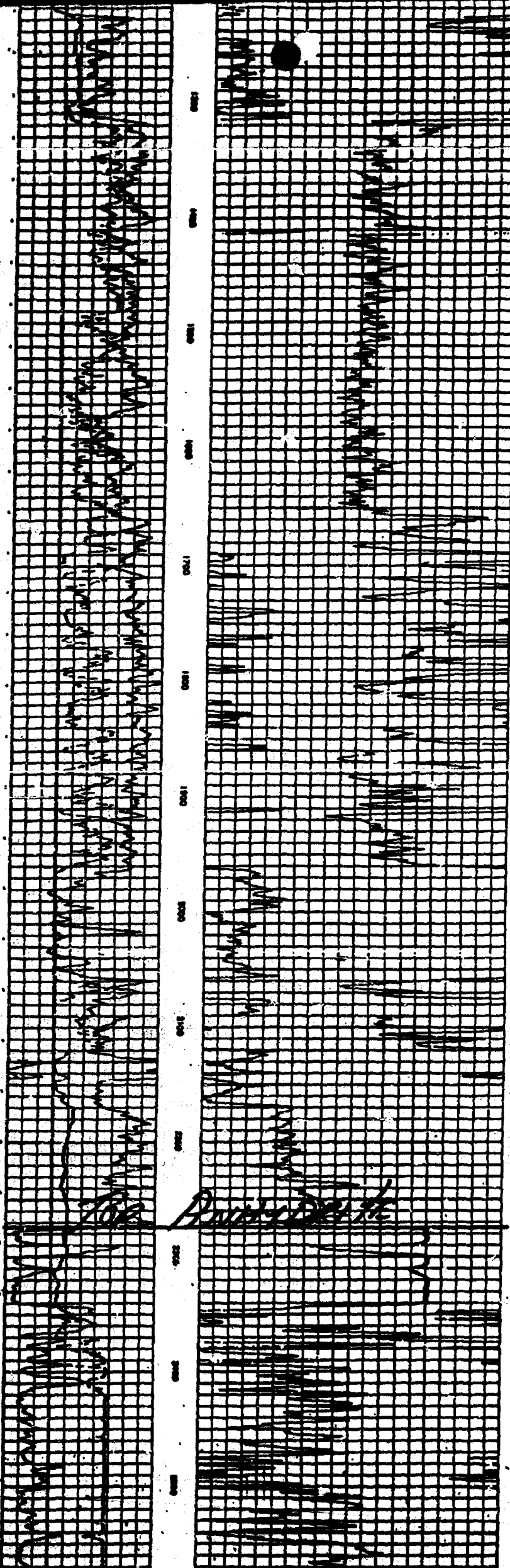
GAMMA RAY & CALPER		DEPTH	POROSITY %
10 API/CD API 10000			
2 API 10000			
HOLE SIZE - INCHES		2 1/2 - 100 SURF.	UNIFORM POROSITY

8 3/8" @ 418"

W.N.M.C.F. MICROGRAPHICS



BEST AVAILABLE COPY



W.N.M.C.F. MICROGRAPHICS



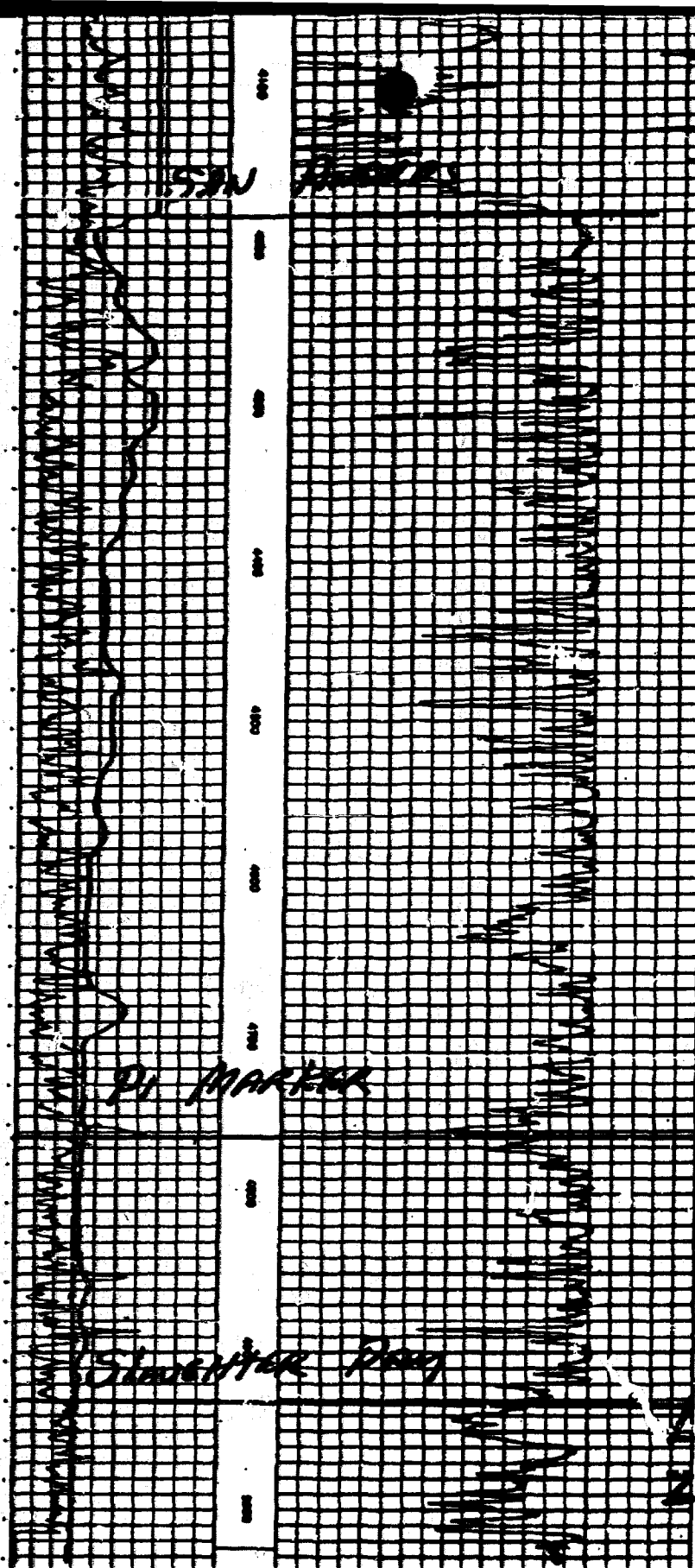
BEST AVAILABLE COPY

Page 5

W.N.C.F. MICROGRAPHICS



BEST AVAILABLE COPY



W.N.M.C.F. MICROGRAPHICS



BEST AVAILABLE COPY

PERF 4932  
TO 4954  
PERF 4976  
TO 4992

AC W/ 9000  
IP FLOW 158 BOPD

1000 800 - INCHES 100 200 100 200 100 200		1000 800 - INCHES 100 200 100 200 100 200	
GAMMA RAY & CALIPER		POROSITY %	
Company B & B OIL, INCORPORATED Well SCHLICK NO. 1 Field WEST BAYVIEW County LEE State NEW MEXICO		Driller T.B. Log F.L. Log T.B. Recorder R.B. 3901 B.J. 3900 G.L. 3970	

GAMMA RAY & CALIPER		POROSITY %	
1000 800 - INCHES 100 200 100 200 100 200		1000 800 - INCHES 100 200 100 200 100 200	



W.N.M.C.F. MICROGRAPHICS



BEST AVAILABLE COPY

W.N.M.C.F. MICROGRAPHICS



BEST AVAILABLE COPY

PERFS  
4932 TO  
4954

4976 TO  
4992

AC W/ 9000  
IP FLOW 158 BOPD

HERE SUB - DNDP 2 API 100 API 10' SP/IN AN GORE		AVERAGE POROSITY  5.0% max 1.0% min	
GAMMA RAY & CALIPER	DEPTH	POROSITY %	
Company	O & O OIL, INCORPORATED	Drillers T.O.	5090'
Well	SCHULDE NO. 1	log P.R.	5083'
Field	WEST SAWYER	log T.B.	5093'
County	LEA	Location	
State	NEW MEXICO	K.S. 5081'	D.P. 5080' G.L. 5070'

REPEAT ACTION

# TANOE OIL & CATTLE CO.



PHONE (915) 697-7938

• 4402 W. INDUSTRIAL •

MIDLAND, TEXAS 79703

November 13, 1981

J. L. Cox  
400 W. Wall  
Box 2217  
Midland, Texas 79702

Re: Schwalbe No. 1  
Section 21, T-9-S, R-37-E  
Lea County, New Mexico

Gentlemen:

The above reference well has fallen below its economic limit, and our company has applied for a permit to convert this well to a Salt Water Injection well. A copy of the application has been included, along with a letter of waiver. If there are no objections to the conversion of this well to a disposal well please forward the letter of waiver to the New Mexico Oil Conservation Commission.

Yours very truly,

Doug Carder  
Prod. Super.

DC/jj  
DC-9-81

BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION	
TANOE	EXHIBIT NO. <u>B</u>
CASE NO.	<u>7548</u>
Submitted by	<u>FREEMAN</u>
Hearing Date	<u>7/7/82</u>

# TAHOE OIL & CATTLE CO.



PHONE (915) 697-7938

4402 W. INDUSTRIAL

MIDLAND, TEXAS 79703

*Surfline*  
↓

7-10-81, Dec. 1980

● SENDER: Complete items 1, 2, 3, and 4.  
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).  
☐ Show to whom and date delivered. \_\_\_\_\_  
☐ Show to whom, date, and address of delivery. \_\_\_\_\_  
☐ RESTRICTED DELIVERY (The restricted delivery fee is charged in addition to the return receipt fee.) \_\_\_\_\_

TOTAL \$ \_\_\_\_\_

2. ARTICLE ADDRESSED TO:  
**R.E. Hardberger**  
**402 Ave M**  
**Beaver, Okla 73932**

3. TYPE OF SERVICE: ARTICLE NUMBER  
☐ REGISTERED ☐ INSURED  
☐ CERTIFIED ☐ COB  
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)

I have received the article described above.  
 SIGNATURE ☐ Addressee ☐ Authorized agent  
*[Signature]*

4. DATE OF DELIVERY  
**6-11-82**

5. ADDRESSEE'S ADDRESS (Only if requested):

6. UNABLE TO DELIVER BECAUSE:

7A. EMPLOYEE'S INITIALS  
*[Initials]*

POSTMARK: BEAVER OKLA JUN 11 1982

PM

7-10-81, Dec. 1980

● SENDER: Complete items 1, 2, 3, and 4.  
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).  
☒ Show to whom and date delivered. \_\_\_\_\_  
☐ Show to whom, date, and address of delivery. \_\_\_\_\_  
☐ RESTRICTED DELIVERY (The restricted delivery fee is charged in addition to the return receipt fee.) \_\_\_\_\_

TOTAL \$ \_\_\_\_\_

2. ARTICLE ADDRESSED TO:  
**1 Ke Lvelady**

3. TYPE OF SERVICE: ARTICLE NUMBER  
☐ REGISTERED ☐ INSURED  
☐ CERTIFIED ☐ COB  
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)

I have received the article described above.  
 SIGNATURE ☐ Addressee ☒ Authorized agent  
*[Signature]*

4. DATE OF DELIVERY  
**6-10-82**

5. ADDRESSEE'S ADDRESS (Only if requested):

6. UNABLE TO DELIVER BECAUSE:

7A. EMPLOYEE'S INITIALS  
*[Initials]*

POSTMARK: JUN 10 1982

# TAHOE OIL & CATTLE CO.



PHONE (915) 697-7938 • 4402 W. INDUSTRIAL • MIDLAND, TEXAS 79703

## III.

### B.

1. San Andres, West Sawyer Field
2. Perforated section 4,932' to 4,992' in 4 1/2" production casing.
3. Drilled as a producing oil well.
4. None
5. There are no known productive zones of oil or gas either above or below the San Andres formation.

75 Form 3811, Oct. 1980

● SENDER: Complete items 1, 2, 3, and 4.  
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one):

☒ Show to whom and date delivered \_\_\_\_\_

☐ Show to whom, date, and address of delivery \_\_\_\_\_

☐ RESTRICTED DELIVERY  
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ \_\_\_\_\_

2. ARTICLE ADDRESSED TO:  
*Smith Fe Energy Co*  
*Amville*

3. TYPE OF SERVICE: (Always obtain signature of addressee or agent)

☐ REGISTERED ☐ INSURED  
☐ CERTIFIED ☐ COD  
☐ EXPRESS MAIL

ARTICLE NUMBER  
*P206*  
*21-000*

I have received the article described above.

SIGNATURE ☒ Addressee ☐ Authorized agent  
*[Signature]*

DATE OF DELIVERY  
*6-11-82*

POSTMARK  
*JUN 10 1982*

ADDRESSER'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE:

7a. EMPLOYEE'S INITIALS  
*[Signature]*

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

75 Form 3811, Oct. 1980

● SENDER: Complete items 1, 2, 3, and 4.  
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one):

☐ Show to whom and date delivered \_\_\_\_\_

☐ Show to whom, date, and address of delivery \_\_\_\_\_

☐ RESTRICTED DELIVERY  
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ \_\_\_\_\_

2. ARTICLE ADDRESSED TO:  
*John L. Caf*  
*408 W Wall*

3. TYPE OF SERVICE: (Always obtain signature of addressee or agent)

☐ REGISTERED ☐ INSURED  
☐ CERTIFIED ☐ COD  
☐ EXPRESS MAIL

ARTICLE NUMBER  
*P206*  
*120-999*

I have received the article described above.

SIGNATURE ☐ Addressee ☐ Authorized agent  
*[Signature]*

DATE OF DELIVERY  
*6-11-82*

POSTMARK  
*JUN 10 1982*

ADDRESSER'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE:

7a. EMPLOYEE'S INITIALS

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

# Santa Fe Energy Company



7200 I-40 West  
Amarillo, Texas 79106  
808/358-2000  
TWX 910-888-4111

June 11, 1982

New Mexico Energy & Minerals Department  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Re: Examiner Hearing, Case No. 7548, Application of Tahoe Oil  
and Cattle Company for Salt Water Disposal, West Sawyer  
(San Andres) Pool, Lea County, New Mexico

Attention: Mr. Richard L. Stamets, Examiner or  
Mr. Daniel S. Nutter, Alternate Examiner

Tahoe Oil and Cattle Company has proposed converting their Schwalbe No. 1 P-Section 21, 9S-37E to a water disposal/injection well. Santa Fe Energy Company, as operator of directly offsetting wells (shown on Tahoe's maps as "Oil Development Company" wells), initially voiced an objection to Tahoe's application on the basis of proximity to our producing wells and disposal into a productive interval of the San Andres formation.

As of today, June 11, 1982 we are in receipt of Tahoe's application Form C-108 (revised 7-1-81), dated 6-7-82. We are prepared to waive our previous objection to Tahoe's application if the disposal volume and pressure of the Schwalbe No. 1 can be limited such to minimize the potential for pre-mature "watering-out" of our offset producers. We feel the limitation of a 200 BWPD injection rate maximum (as stated in Tahoe's application) is satisfactory. We feel an initial 1000 psi limitation of surface injection pressure is satisfactory, with the provision that this limitation may be increased if it can be shown (i.e. with step-rate tests) that a higher pressure will not fracture the formation.

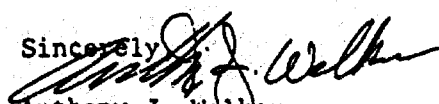
I have talked with Mr. K. A. Freeman, owner of Tahoe Oil and Cattle Company, concerning Santa Fe Energy Company's desired rate limitation of 200 BWPD and an initial surface pressure limitation of 1000 psi. Mr. Freeman is in agreement to these limitations.

Therefore, Santa Fe Energy Company will waive its previous objection to Tahoe's application and we request that the Oil Conservation Division impose a 200 BWPD rate limitation and a 1000 psi initial surface injection pressure limitation (with provisions for increasing as discussed above) on the Schwalbe No. 1.

It is our understanding that Santa Fe Energy Company voiced the only offset operator objection to Tahoe's application. With the waiving of our objection, perhaps the application can now be handled administratively from the District level for simplicity.

If further information is desired, please advise.

Sincerely,

  
Anthony J. Welker  
Petroleum Engineer

AJW/lcs



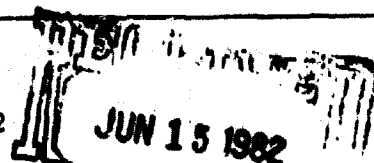
cc: Mr. K. A. Freeman  
A Santa Fe Industries Company

# Santa Fe Energy Company



7200 I-40 West  
Amarillo, Texas 79106  
806/388-2000  
TWX 910-898-4111

June 11, 1982



New Mexico Energy & Minerals Department  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Re: Examiner Hearing, Case No. 7548, Application of Tahoe Oil  
and Cattle Company for Salt Water Disposal, West Sawyer  
(San Andres) Pool, Lea County, New Mexico

Attention: Mr. Richard L. Stamets, Examiner or  
Mr. Daniel S. Nutter, Alternate Examiner

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If further information is desired, please advise.

Sincerely,

Anthony J. Welker  
Petroleum Engineer

AJW/lcs



cc: Mr. K. A. Freeman  
A Santa Fe Industries Company

926 BT by .2. calculation

Dockets Nos. 23-82 and 24-82 are tentatively set for July 21 and August 4, 1982. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - FRIDAY - JUNE 25, 1982

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

The following cases were continued from the June 22, 1982, Commission Hearing:

CASE 7522: (DE NOVO)

Application of Santa Fe Exploration Co. for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox location 660 feet from the North and West lines of Section 14, Township 20 South, Range 25 East, Permian-Penn, Strawn, Atoka and Morrow formations, the W/2 of said Section 14 to be dedicated to the well.

Upon application of Chama Petroleum Company, this case will be heard De Novo pursuant to the provisions of Rule 1220.

CASE 7521: (DE NOVO)

Application of William B. Barnhill for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox location 660 feet from the South and West lines of Section 35, Township 19 South, Range 25 East, Permian-Penn, Strawn, Atoka and Morrow formations, the S/2 of said Section 35 to be dedicated to the well.

Upon application of Chama Petroleum Company and William B. Barnhill, this case will be heard De Novo pursuant to the provisions of Rule 1220.

\*\*\*\*\*  
Docket No. 22-82

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 7, 1982

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

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

CASE 7566: (Continued from May 12, 1982, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Flag-Redfern Oil Co., Principal, National Surety Corporation, and all other interested parties to appear and show cause why four wells, being the Julander No. 1 located in Unit L, Section 34; Julander No. 2 located in Unit I, Section 33; Hargis No. 1 located in Unit G, Section 33; and Hargis No. 2 located in Unit J, Section 33, all in Township 30 North, Range 12 West, San Juan County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

CASE 7560: (Continued from May 12, 1982, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Charles E. Nelson, Fidelity and Deposit Company of Maryland, Surety, and all other interested parties to appear and show cause why the Crownpoint Well No. 1, located in Unit F, Section 18, Township 18 North, Range 13 West, McKinley County, should not be plugged and abandoned in accordance with a Division-approved plugging program.



**CASE 7619:** Application of Merriam Oil & Gas Corp. for pool creation and special pool rules, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Gallup Pool to comprise Sections 3, 4, 8, 9, 10, 14, and 15, Township 23 North, Range 6 West, and the promulgation of special rules therefor including 160-acre spacing for oil and gas.

**CASE 7620:** Application of Mesa Petroleum Company for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in all formations from the surface through the base of the Abo formation underlying the SW/4 of Section 8, Township 5 South, Range 25 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

**CASE 7548:** (Continued from June 23, 1982, Examiner Hearing)

Application of Tahoe Oil & Cattle Co. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from 4932 feet to 4992 feet in its Schwalbe Well No. 1, located in Unit F of Section 21, Township 9 South, Range 37 East, West Sawyer-San Andres Pool.

**CASES 7528, 7529, 7532, 7533 and 7534:** (Continued from May 12, 1982, Examiner Hearing)

Application of Jack J. Grynberg for compulsory pooling, Chaves County, New Mexico. Applicant, in each of the following 5 cases, seeks an order pooling all mineral interests down through the Abo formation underlying the lands specified in each case, each to form a standard 160-acre gas spacing and proration unit to be dedicated to a well to be drilled at a standard location thereon. Also to be considered in each case 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, designation of applicant as operator of the wells and a charge for risk involved in drilling said wells:

**CASE 7528:** NW/4 Section 4, Township 5 South, Range 24 East

**CASE 7529:** NE/4 Section 4, Township 5 South, Range 24 East

**CASE 7532:** SE/4 Section 27, Township 6 South, Range 24 East

**CASE 7533:** SW/4 Section 27, Township 6 South, Range 24 East

**CASE 7534:** NW/4 Section 34, Township 6 South, Range 24 East

**CASE 7621:** In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating, abolishing, and extending certain pools in Chaves, Eddy, and Lea Counties, New Mexico.

- (a) **CREATE** a new pool in Eddy County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the Big Sinks-Wolfcamp Gas Pool. The discovery well is the Perry R. Bass, Poker Lake Unit Well No. 50 located in Unit B of Section 4, Township 25 South, Range 31 East, NMPN. Said pool would comprise:

TOWNSHIP 25 SOUTH, RANGE 31 EAST, NMPN  
Section 4: W/2

- (b) **CREATE** a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the East Black River-Atoka Gas Pool. The discovery well is the Pogo Production Company MAN State Well No. 1 located in Unit E of Section 14, Township 24 South, Range 27 East, NMPN. Said pool would comprise:

TOWNSHIP 24 SOUTH, RANGE 27 EAST, NMPN  
Section 14: W/2

- (c) **CREATE** a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Black River-Morrow Gas Pool. The discovery well is the HMG Oil Company Loving 1 State Well No. 1 located in Unit B of Section 1, Township 24 South, Range 27 East, NMPN. Said pool would comprise:

TOWNSHIP 24 SOUTH, RANGE 27 EAST, NMPN  
Section 1: W/2

- (d) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Dog Town Draw-Morrow Gas Pool. The discovery well is the Perry R. Bass Poker Lake Unit Well No. 49 located in Unit E of Section 17, Township 24 South, Range 30 East, NMPM. Said pool would comprise:

TOWNSHIP 24 SOUTH, RANGE 30 EAST, NMPM  
Section 17: W/2

- (e) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Yates production and designated as the East Summit-Yates Pool. The discovery well is the Ika Lovelady, Inc. Linwood Well No. 1 located in Unit F of Section 30, Township 19 South, Range 38 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 38 EAST, NMPM  
Section 30: NW/4

- (f) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Bone Spring production and designated as the Featherstone-Bone Spring Pool. The discovery well is The Superior Oil Company Featherstone Federal Well No. 1 located in Unit G of Section 21, Township 20 South, Range 35 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 35 EAST, NMPM  
Section 21: NE/4

- (g) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Livingston Ridge-Atoka Gas Pool. The discovery well is the Perry R. Bass James Ranch Unit Well No. 12 located in Unit G of Section 21, Township 22 South, Range 30 East, NMPM. Said pool would comprise:

TOWNSHIP 22 SOUTH, RANGE 30 EAST, NMPM  
Section 21: E/2

- (h) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Yates production and designated as the West Madine-Yates Pool. The discovery well is the Ika Lovelady, Inc. McNeill Well No. 1 located in Unit M of Section 33, Township 19 South, Range 38 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 38 EAST, NMPM  
Section 33: SW/4

- (i) ABOLISH the South Rock Tank-Morrow Gas Pool in Eddy County, New Mexico, heretofore classified, defined, and described as:

TOWNSHIP 24 SOUTH, RANGE 24 EAST, NMPM  
Section 2: W/2

- (j) EXTEND the Baldrige Canyon-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 24 EAST, NMPM  
Section 1: W/2  
Section 2: All  
Section 14: S/2

- (k) EXTEND the West Bitter Lakes-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 10 SOUTH, RANGE 25 EAST, NMPM  
Section 17: NE/4 NE/4 and W/2 NE/4

- (l) EXTEND the East Carlsbad-Wolfcamp Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM  
Section 21: All  
Section 22: W/2

- (m) EXTEND the Chaveroo-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 33 EAST, NMPM  
Section 7: S/2  
Section 8: SW/4

- (n) EXTEND the East Eagle Creek Atoka-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 26 EAST, NMPM  
Section 32: W/2

- (o) EXTEND the Malaga-Atoka Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 20 EAST, NMPM  
Section 10: W/2

- (p) EXTEND the East Mason-Delaware Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 26 SOUTH, RANGE 32 EAST, NMPM  
Section 16: NW/4

- (q) EXTEND the Penjack-Abo Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 26 EAST, NMPM  
Section 31: SE/4  
Section 32: All

- (r) EXTEND the Racetrack-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 10 SOUTH, RANGE 28 EAST, NMPM  
Section 20: SW/4

- (s) EXTEND the East Red Lake Queen-Grayburg Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 29 EAST, NMPM  
Section 30: NW/4

- (t) EXTEND the West Sawyer-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 10 SOUTH, RANGE 37 EAST, NMPM  
Section 3: NW/4

- (u) EXTEND the Scharb-Bone Spring Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 35 EAST, NMPM  
Section 9: SW/4

- (v) EXTEND the Turkey Track-Atoka Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 29 EAST, NMPM  
Section 28: N/2

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DOCKET: COMMISSION HEARING - WEDNESDAY - JULY 14, 1982

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

CASE 7496: (DE NOVO)

Application of Viking Petroleum, Inc. for an unorthodox location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of an Abo gas well located 62 feet from the South line and 1984 feet from the East line of Section 29, Township 5 South, Range 24 East, the SE/4 of said Section 29 to be dedicated to the well.

Upon application of Viking Petroleum, Inc., this case will be heard De Novo pursuant to the provisions of Rule 1220.

CASE 7329: (DE NOVO)

Application of Loco Hills Water Disposal Company for an exception to Order No. R-3221, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221 to permit the commercial disposal of produced brine into several unlined surface pits located in the N/2 SW/4 SW/4 of Section 16, Township 17 South, Range 30 East.

Upon application of Loco Hills Water Disposal Company, this case will be heard De Novo pursuant to the provisions of Rule 1220.

Dockets Nos. 21-82 and 22-82 are tentatively set for July 7 and 21, 1982. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - TUESDAY - JUNE 22, 1982

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

The following cases were continued from the June 2, 1982, Commission hearing:

CASE 7522: (DE NOVO)

Application of Santa Fe Exploration Co. for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox location 660 feet from the North and West lines of Section 14, Township 20 South, Range 25 East, Permo-Penn, Strawn, Atoka and Morrow formations, the N/2 of said Section 14 to be dedicated to the well.

Upon application of Chama Petroleum Company, this case will be heard De Novo pursuant to the provisions of Rule 1220.

CASE 7521: (DE NOVO)

Application of William B. Barnhill for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox location 660 feet from the South and West lines of Section 35, Township 19 South, Range 25 East, Permo-Penn, Strawn, Atoka and Morrow formations, the S/2 of said Section 35 to be dedicated to the well.

Upon application of Chama Petroleum Company and William B. Barnhill, this case will be heard De Novo pursuant to the provisions of Rule 1220.

Docket No. 20-82

DOCKET: EXAMINER HEARING - WEDNESDAY - JUNE 23, 1982

9 A.M., MORGAN HALL, 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 7610: Application of Stevens Oil Company for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from 2724 feet to 2745 feet in its O'Brien "J" Well No. 9 located in Unit A, Section 31, Township 8 South, Range 29 East, Twinlakes-San Andres Pool.

CASE 7611: Application of Texaco Inc. for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks special pool rules for the Skaggs-Drinkard Pool, including provision for a limiting gas-oil ratio of 10,000 cubic feet of gas per barrel of oil.

CASE 7612: Application of S & E, Inc. for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to install and operate a commercial facility for the disposal of salt water into the Southeast end of Laguna Tres in Section 12, Township 23 South, Range 29 East and/or into the Northeast side of Laguna Cuatro in Section 6, Township 23 South, Range 30 East.

CASE 7613: Application of Tenneco Oil Company for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Pennsylvanian test well to be located 660 feet from the South and West lines of Section 28, Township 16 South, Range 34 East, the W/2 of said Section 28 to be dedicated to the well.

CASE 7548: (Continued from June 9, 1982, Examiner Hearing)

Application of Tahoe Oil & Cattle Co. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from 4932 feet to 4992 feet in its Schweiba Well No. 1, located in Unit P of Section 21, Township 9 South, Range 37 East, West Sawyer-San Andres Pool.

CASES 7614 AND 7615: Application of Inxco Oil Company for compulsory pooling, Lea County, New Mexico. Applicant, in each of the following cases seeks an order pooling all mineral interests from the surface through the Strawn formation underlying the lands specified in each case, to form a standard 80-acre oil proration unit in the South Humble City-Strawn Pool 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 wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the wells and a charge for risk involved in drilling said wells:

CASE 7614: W/2 NE/4 Section 23, Township 17 South, Range 37 East

CASE 7615: E/2 NE/4 Section 23, Township 17 South, Range 37 East

CASES 7616 AND 7617: Application of Southland Royalty Company for compulsory pooling, Eddy County, New Mexico. Applicant, in each of the following cases seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the lands specified in each case, to form a standard 320-acre gas spacing and proration unit 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 wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the wells and a charge for risk involved in drilling said wells:

CASE 7616: W/2 Section 21, Township 18 South, Range 29 East

CASE 7617: S/2 Section 21, Township 18 South, Range 29 East

CASE 7618: Application of Doyle Hartman for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a gas well to be drilled 1450 feet from the South line and 1980 feet from the East line of Section 20, Township 20 South, Range 37 East, Eumont Gas Pool, the SE/4 of said Section 20 to be dedicated to the well.

CASE 7605: (Continued from June 9, 1982, Examiner Hearing)

Application of Yates Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the top of the Wolfcamp formation through the uppermost 100 feet of the Mississippian Chester Limestone underlying the W/2 of Section 35, Township 19 South, Range 24 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7458: (Continued from April 28, 1982, Examiner Hearing)

Application of Marks & Garner Production Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of salt water into the Bough C formation in the perforated interval from 9596 feet to 9616 feet in its Batenbough Well No. 2, located in Unit M of Section 12, Township 9 South, Range 35 East.

CASE 7598: (This case was heard on May 26, 1982. However, due to an error in originally advertising the case in the Torrance County newspaper, it has been readvertised in Torrance County only and will be reopened June 23, 1982, with respect to Torrance County only.)

Application of ANR Production Company and Yates Petroleum Corporation for designation of a tight formation in San Miguel, Torrance, Guadalupe, De Baca, Lincoln and Chavez Counties, New Mexico. Pursuant to Section 107 of the Natural Gas Policy Act of 1978 and 18 CFR Section 271.701-705, applicants, in the above-styled cause, seeks the designation as a tight formation of the Abo formation underlying the following described lands in the above-named counties.

All of:

Townships 1 thru 4 North, Ranges 14 thru 27 East;  
Townships 5 thru 11 North, Ranges 14 thru 26 East;  
Township 1 South, Ranges 14 thru 27 East;  
Townships 2 thru 5 South, Ranges 14 thru 21 East;  
Townships 6 thru 11 South, Ranges 15 thru 21 East;  
Township 12 South, Ranges 17 thru 21 1/2 East; and  
Townships 13 and 14 South, Ranges 17 thru 21 East;  
containing 5,168,563 acres, more or less, but excluding the not yet defined Capitan Wilderness Area.

Dockets Nos. 19 -82 and 20 -82 are tentatively set for June 23 and July 7, 1982. Applications for hearing must be filed at least 22 days in advance of hearing date.

**DOCKET: COMMISSION HEARING - WEDNESDAY - JUNE 2, 1982**  
**OIL CONSERVATION COMMISSION - 9 A.M.**  
**MORGAN HALL, STATE LAND OFFICE BUILDING**  
**SANTA FE, NEW MEXICO**

**CASE 7522: (DE NOVO - Continued from May 17, 1982, Commission Hearing)**

Application of Santa Fe Exploration Co. for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox location 660 feet from the North and West lines of Section 14, Township 20 South, Range 25 East, Permo-Penn., Strawn, Atoka and Morrow formations, the N/2 of said Section 14 to be dedicated to the well.

Upon application of Chama Petroleum Company, this case will be heard De Novo pursuant to the provisions of Rule 1220.

**CASE 7521: (DE NOVO)**

Application of William B. Barnhill for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox location 660 feet from the South and West lines of Section 35, Township 19 South, Range 23 East, Permo-Penn., Strawn, Atoka and Morrow formations, the S/2 of said Section 35 to be dedicated to the well.

Upon application of Chama Petroleum Company and William B. Barnhill, this case will be heard De Novo pursuant to the provisions of Rule 1220.

Docket No. 17-82

**DOCKET: EXAMINER HEARING - WEDNESDAY - JUNE 9, 1982**  
**9 A.M. MORGAN HALL, STATE LAND OFFICE**  
**BUILDING, SANTA FE, NEW MEXICO**

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

**CASE 7599:** Application of Barber Oil Inc. for an Exception to Rule 705-A Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the provisions of Rule 705-A of the Division Rules and Regulations to permit 37 temporarily abandoned injection wells in its Russell Pool waterflood project to remain inactive for a period of up to three years without the required cement or bridge plugs being installed therein to isolate the injection zone.

**CASE 7600:** Application of Gulf Oil Corporation for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers and Queen formations in the perforated interval from 3338 feet to 3448 feet in its Arnott-Ramsey (NCT-B) Well No. 4 located in Unit D of Section 32, Township 25 South, Range 37 East, Langlie Mattix Pool.

**CASE 7548: (Continued from April 14, 1982, Examiner Hearing)**

Application of Tahoe Oil & Cattle Co. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from 4932 feet to 7992 feet in its Schwalbe Well No. 1, located in Unit P of Section 21, Township 9 South, Range 37 East, West Sawyer-San Andres Pool.

**CASE 7601:** Application of Claude Walker for an oil treating plant permit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority for the construction and operation of an oil treating plant for the purpose of treating and reclaiming sediment oil at its salt water disposal site in the NE/4 NE/4 of Section 11, Township 10 South, Range 35 East.

CASE 7602: Application of Riqueza, Inc. for an oil treating plant permit, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority for the construction and operation of an oil treating plant for the purpose of treating and reclaiming sediment oil in the NE/4 of Section 26, Township 22 South, Range 29 East.

CASE 7603: Application of Riqueza, Inc. for an exception to Order No. R-3221, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221 to permit the commercial disposal of produced brine into an unlined surface pit located near its proposed oil treating plant in the NE/4 of Section 26, Township 22 South, Range 29 East.

CASE 7519: (Continued from May 26, 1982, Examiner Hearing)

Application of S & J Oil Company for special pool rules, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Seven Lakes-Menafee Oil Pool to provide for wells to be located not nearer than 25 feet to the quarter-quarter section line nor nearer than 165 feet to lands owned by an offset operator.

CASE 7604: Application of Rio Pecos Corporation for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Pennsylvanian formation underlying the W/2 of Section 2, Township 19 South, Range 32 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7605: Application of Yates Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the top of the Wolfcamp formation through the uppermost 100 feet of the Mississippian Chester Limestone underlying the W/2 of Section 35, Township 19 South, Range 24 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7606: Application of MTS Limited Partnership Company for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface through the base of the Abo formation underlying the NW/4 of Section 5, Township 7 South, Range 26 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7592: (Continued from May 26, 1982, Examiner Hearing)

Application of OXOCO for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Mesa Verde formation underlying the E/2 of Section 20, Township 32 North, Range 8 West, 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7586: (Continued and Readvertised)

Application of Standard Resources Corp. for designation of a tight formation, Chaves and Eddy Counties, New Mexico. Applicant, in the above-styled cause, seeks the designation of the Abo-Wolfcamp formation underlying all or portions of Township 15 South, Ranges 23 through 25 East, Township 19 South, Range 20 East, and Township 20 South, Range 20 East, all in Chaves County; in Eddy County: Township 16 South, Ranges 23 through 26 East, Township 17 South, Ranges 21, 23, 24, and 25 East; and Township 18 South, Ranges 21, 23, 24 and 25 East, Township 19 South, Ranges 21, 23 and 24 East, and Township 20 South, Ranges 21, 23 and 24 East, containing 460,800 acres, more or less, as a tight formation pursuant to Section 107 of the Natural Gas Policy Act and 18 CFR Section 271. 701-705.



**CASE 7607:** Application of El Paso Natural Gas Company for the abolishment of the Blanco-Pictured Cliffs Pool and the expansion of the South Blanco-Pictured Cliffs Pool in Rio Arriba, Sandoval and San Juan Counties, New Mexico. Applicant, in the above-styled cause, seeks the abolishment of the Blanco-Pictured Cliffs Pool and the expansion of the horizontal limits of the South Blanco-Pictured Cliffs Pool to include the abolished acreage.

Also to be considered will be the appropriate method for institution of gas prorationing for wells affected by the change in pool designation.

**CASE 7608:** Application of Tanneco Oil Company for designation of a tight formation, San Juan County, New Mexico. Pursuant to Section 107 of the Natural Gas Policy Act of 1978 and 18 CFR Section 271. 701-705, applicant, in the above-styled cause, seeks the designation as a tight formation of the Dakota Producing Interval underlying the following described lands:

All of:

Sections 1 thru 6, Township 29 North, Range 8 West;

Sections 1 and 2, Township 29 North, Range 9 West;

Sections 1 thru 18 and Section 24, Township 30 North, Range 10 West;

Sections 7 thru 9, 16 thru 21 and 25 thru 36, Township 32 North, Range 7 West;

All sections, Township 32 North, Range 8 West; and

All sections, Township 32 North, Range 9 West;

Also:

All of Township 30 North, Range 8 West except Sections 3 thru 5 and Section 35;

All of Township 30 North, Range 9 West except Sections 31 thru 34;

All of Township 31 North, Range 8 West except Section 32; and

All of Township 31 North, Range 9 West except Sections 27 and 28

containing 149,760 acres, more or less.

**CASE 7609:** In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating and extending certain pools in Chaves, Eddy, and Lea Counties, New Mexico.

- (a) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Middle Bell Canyon production and designated as the Brushy Draw-Middle Bell Canyon Gas Pool. The discovery well is the J. C. Williamson EP-USA Well No. 2 located in Unit O of Section 26, Township 26 South, Range 29 East, NMPM. Said Pool would comprise:

TOWNSHIP 26 SOUTH, RANGE 29 EAST, NMPM  
Section 26: SE/4

- (b) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Bone Spring production and designated as the Legg-Bone Spring Pool. The discovery well is the Amoco Production Company State LT Well No. 1 located in Unit K of Section 32, Township 21 South, Range 33 East, NMPM. Said Pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 33 EAST, NMPM  
Section 32: SW/4

- (c) CREATE a new pool in Chaves County, New Mexico, classified as a gas pool for Atoka production and designated as the White Ranch-Atoka Gas Pool. The discovery well is the Depco, Inc. White Ranch Unit Well No. 1 located in Unit F of Section 8, Township 13 South, Range 30 East, NMPM. Said Pool would comprise:

TOWNSHIP 13 SOUTH, RANGE 30 EAST, NMPM  
Section 8: W/2

- (d) EXTEND the Austin-Mississippian Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 36 EAST, NMPM  
Section 5: N/2 and SW/4

- (e) EXTEND the Baum-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 33 EAST, NMPM  
Section 18: NE/4

- (f) EXTEND the Burton Flat-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 28 EAST, NMPM  
Section 8: S/2

- (g) EXTEND the East Burton Flat-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM  
Section 6: S/2

- (h) EXTEND the Cedar Lake-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 30 EAST, NMPM  
Section 34: N/2  
Section 35: N/2

- (i) EXTEND the Crooked Creek-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 24 EAST, NMPM  
Section 3: S/2  
Section 10: N/2

- (j) EXTEND the EK Yates-Seven Rivers-Queen Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM  
Section 9: SW/4

- (k) EXTEND the Elkins-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 7 SOUTH, RANGE 28 EAST, NMPM  
Section 22: S/2 NW/4

- (l) EXTEND the Empire-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM  
Section 20: N/2

- (m) EXTEND the East Grama Ridge-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 35 EAST, NMPM  
Section 31: S/2

- (n) EXTEND the Hoag Tank-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM  
Section 34: N/2

- (o) EXTEND the House-Drinkard Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 38 EAST, NMPM  
Section 35: SE/4

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM  
Section 2: NE/4

EXAMINER HEARING - WEDNESDAY - JUNE 9, 1982

## EXAMINER HEARING-WEDNESDAY-JUNE(

- (p) EXTEND the South Kennitz Atoka-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 34 EAST, NMPM  
Section 19: S/2

- (q) EXTEND the East Larica-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM  
Section 35: S/2

- (r) EXTEND the North Loving-Atoka Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM  
Section 5: All

- (s) EXTEND the North Loving-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM  
Section 6: S/2

- (t) EXTEND the Maljamar-Atoka Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 33 EAST, NMPM  
Section 28: E/2

- (u) EXTEND the South Salt Lake-Morrow Gas Pool in Lea County, New Mexico to include therein:

TOWNSHIP 21 SOUTH, RANGE 32 EAST, NMPM  
Section 6: Lots 1, 2, 3, 4, 5, 6, 7, and 8

- (v) EXTEND the Sand Hills Grayburg-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 10 SOUTH, RANGE 39 EAST, NMPM  
Section 31: SE/4

- (w) EXTEND the Shugart-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 31 EAST, NMPM  
Section 4: N/2

- (x) EXTEND the Tom-Tom San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 7 SOUTH, RANGE 31 EAST, NMPM  
Section 35: NE/4

- (y) EXTEND the Travis-Upper Pennsylvanian Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM  
Section 13: N/2 NW/4

- (z) EXTEND the North Turkey Track-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM  
Section 27: E/2

- (aa) EXTEND the White City-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 25 SOUTH, RANGE 26 EAST, NMPM  
Section 13: All

- (bb) EXTEND the North Young-Bone Spring Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 32 EAST, NMPM  
Section 4: SE/4  
Section 11: W/2

\*\*\*\*\*  
Docket No. 18-82

DOCKET: EXAMINER HEARING - THURSDAY- JUNE 17, 1982

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. Nuttar, Examiner, or Richard L. Stamets, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for July, 1982, from fifteen prorated pools in Lea, Eddy, and Chaves Counties, New Mexico.
- (2) Consideration of the allowable production of gas for July, 1982, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.

Dockets No. 11-82 and 12-82 are tentatively set for April 28 and May 12, 1982. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - APRIL 14, 1982

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

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

- ALLOWABLE:** (1) Consideration of the allowable production of gas for May, 1982, from fifteen prorated pools in Lea, Eddy, and Chaves Counties, New Mexico.
- (2) Consideration of the allowable production of gas for May, 1982, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.

**CASE 7536:** In the matter of the hearing called by the Oil Conservation Division on its own motion to permit A. H. Bernstein and all other interested parties to appear and show cause why the Allan Well No. 1 located in Unit F, Section 23, Township 29 North, Range 13 West, San Juan County, should not be re-entered and plugged and abandoned in accordance with a Division-approved plugging program.

**CASE 7537:** In the matter of the hearing called by the Oil Conservation Division on its own motion to permit F. K. Umbarger, Trustee and all other interested parties to appear and show cause why the Davis Pooled Unit Well No. 1, located in Unit I, Section 27, Township 29 North, Range 11 West, San Juan County, should not be re-entered and plugged and abandoned in accordance with a Division-approved plugging program.

**CASE 7538:** In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Francis L. Harvey and all other interested parties to appear and show cause why the Pinkstaff Estate Well No. 1, located in Unit A, Section 29, Township 29 North, Range 10 West, San Juan County, should not be re-entered and plugged and abandoned in accordance with a Division-approved plugging program.

**CASE 7539:** In the matter of the hearing called by the Oil Conservation Division on its own motion to permit B.M.N.S. Company, American Employers Insurance and all other interested parties to appear and show cause why the following wells: Waggoner No. 1, Brown No. 2, Wyper No. 2, located in Units K, M, and O, respectively, of Section 29, Township 30 North, Range 12 West, San Juan County, should not be plugged and abandoned in accordance with Division-approved plugging programs.

**CASE 7540:** In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Pauly-Anderson-Pritchard and all other interested parties to appear and show cause why the Maloy Well No. 1, located in Unit P, Section 16, Township 29 North, Range 11 West, San Juan County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

**CASE 7541:** In the matter of the hearing called by the Oil Conservation Division on its own motion to permit E. J. Miley and all other interested parties to appear and show cause why the Hare (Ransom) Well No. 1, located in Unit M, Section 14, Township 29 North, Range 11 West, San Juan County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

**CASE 7542:** In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Benson-Montin-Greer Drilling Corporation, Hartford Accident and Indemnity Company, and all other interested parties to appear and show cause why the following wells: Dustin No. 1, located in Unit K, Section 6, and the Gallegos Canyon Unit No. 2, located in Unit K, Section 35, both in Township 29 North, Range 12 West, and the Segal No. 1, located in Unit K, Section 10, and the Price No. 1, located in Unit M, Section 15, both in Township 31 North, Range 13 West, San Juan County, should not be plugged and abandoned in accordance with Division-approved plugging programs.

**CASE 7543:** In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Calvin Petroleum Corporation, United States Fidelity and Guaranty Co., and all other interested parties to appear and show cause why the Kaempf SWD Well No. 1, located in Unit N, Section 19, Township 30 North, Range 11 West, San Juan County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

- CASE 7544:** Application of Dinero Operating Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well to be drilled 640 feet from the North and East lines of Section 20, Township 22 South, Range 28 East, Morrow formation, the N/2 of said Section 20, to be dedicated to the well.
- CASE 7545:** Application of Baker Engineering for a non-standard gas proration unit, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 258.16-acre non-standard gas proration unit for the Morrow formation comprising all of partial Section 32, Township 26 South, Range 30 East.
- CASE 7546:** Application of Sonny's Oil Field Services, Inc. for an oil treating plant permit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority for the construction and operation of an oil treating plant for the purpose of treating and reclaiming sediment oil at its salt water disposal site in the NW/4 NE/4 of Section 29, Township 18 South, Range 38 East.
- CASE 7547:** Application of Anadarko Production Company for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox location 2550 feet from the North line and 1350 feet from the West line of Section 15, Township 22 South, Range 37 East, Penrose Skelly Pool, the SE/4 NW/4 of said Section 15 to be dedicated to the well.
- CASE 7517:** (Continued from March 31, 1982, Examiner Hearing)
- Application of Anadarko Production Company for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox location 1450 feet from the South line and 1400 feet from the West line of Section 15, Township 22 South, Range 37 East, Penrose Skelly Pool, the NE/4 SW/4 of said Section 15 to be dedicated to the well.
- CASE 7548:** Application of Tahoe Oil & Cattle Co. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from 4932 feet to 4992 feet in its Schwalbe Well No. 1, located in Unit P of Section 21, Township 9 South, Range 37 East, West Sawyer-San Andres Pool.
- CASE 7549:** Application of R. L. Brown for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox Pennsylvanian gas well location 609 feet from the South line and 1665 feet from the East line of Section 32, Township 15 South, Range 32 East, the S/2 of said Section 32 to be dedicated to the well, an existing well which is to be deepened.
- CASE 7550:** Application of Harvey E. Yates Company for the Rescission of Order No. R-6918, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks the rescission of Order No. R-6918, which compulsorily pooled the Atoka-Morrow formation underlying the N/2 of Section 19, Township 8 South, Range 30 East, Chaves County, New Mexico, to be dedicated to a well to be drilled at a standard location thereon. Applicant now seeks the rededication of the E/2 of said Section 19 to the aforesaid well without compulsory pooling.
- CASE 7551:** Application of Harvey E. Yates Company for compulsory pooling, Chaves 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 21, Township 11 South, Range 31 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 7552:** Application of Merriam Oil & Gas Company for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down through and including the Gallup formation underlying the S/2 SE/4 of Section 20, Township 23 North, Range 6 West, 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 7553:** Application of Fred Pool Drilling Company for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface down through the Abo formation, underlying the SW/4 of Section 17, Township 6 South, Range 25 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7520: (Continued and Readvertised)

Application of Lewis B. Burleson, Inc. for compulsory pooling and a non-standard oil proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interest in the Jalmat Pool underlying a 30-acre non-standard oil proration unit comprising the N/2 of the Easternmost 60 acres of the NW/4 of Section 15, Township 24 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7554: Application of Morris R. Antweil for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the top of the Drinkard formation underlying the NW/4 SW/4 of Section 5, Township 20 South, Range 38 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7555: Application of Morris R. Antweil for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the top of the Drinkard formation underlying the SW/4 NW/4 of Section 5, Township 20 South, Range 38 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7556: Application of MCF Oil Corporation for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface down through the San Andres formation underlying the NE/4 NW/4 of Section 5, Township 20 South, Range 39 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7557: Application of MGF Oil Corporation for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface down through the Seven Rivers formation underlying the SW/4 of Section 32, Township 19 South, Range 39 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7558: Application of MGF Oil Corporation for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface down through the Seven Rivers formation underlying the SE/4 of Section 31, Township 19 South, Range 39 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7515: (Continued from March 31, 1982 Examiner Hearing)

Application of Four Corners Gas Producers Association for designation of a tight formation, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the designation of the Dakota formation underlying all or portions of Townships 26 and 27 North, Range 12 and 13 West, Township 28 North, Range 13 West, Township 29 North, Ranges 13 through 15 West, and Township 30 North, Ranges 14 and 15 West, containing 164,120 acres, more or less, as a tight formation pursuant to Section 107 of the Natural Gas Policy Act and 18 CFR Section 271. 701-705.

Page 4 of 5

Examiner Hearing - WEDNESDAY - APRIL 14, 1982

**CASE 7559:** In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating, abolishing, and extending certain pools in Lea and Roosevelt Counties, New Mexico.

(a) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Mississippian production and designated as the Caudill-Mississippian Gas Pool. The discovery well is the Moran Exploration, Inc. Gann Well No. 1 located in Unit D of Section 9, Township 15 South, Range 36 East, NMPM. Said pool would comprise:

TOWNSHIP 15 SOUTH, RANGE 36 EAST, NMPM  
Section 9: NW/4

(b) CREATE a new pool in Roosevelt County, New Mexico, classified as an oil pool for Pennsylvanian production and designated as the North Dora-Pennsylvanian Pool. The discovery well is the Enserch Exploration, Inc. Collier Well No. 1 located in Unit I of Section 29, Township 4 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 4 SOUTH, RANGE 33 EAST, NMPM  
Section 29: E/2

(c) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Morrow production and designated as the Johnson Ranch-Morrow Gas Pool. The discovery well is the Mesa Petroleum Company Jackson Unit Well No. 1 located in Unit G of Section 22, Township 24 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 24 SOUTH, RANGE 33 EAST, NMPM  
Section 22: E/2

(d) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Delaware production and designated as the East Triste Draw-Delaware Pool. The discovery well is the Getty Oil Company Getty 28 State Well No. 1 located in Unit J of Section 28, Township 24 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 24 SOUTH, RANGE 33 EAST, NMPM  
Section 28: SE/4

(e) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Morrow production and designated as the Triste Draw-Morrow Gas Pool. The discovery well is the Amoco Production Company State IG Com Well No. 1 located in Unit B of Section 32, Township 23 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 23 SOUTH, RANGE 32 EAST, NMPM  
Section 32: N/2

(f) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the Vaca Draw-Wolfcamp Gas Pool. The discovery well is the HNG Oil Company Bell Lake 11 Federal Well #1 located in Unit B of Section 11, Township 25 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 25 SOUTH, RANGE 33 EAST, NMPM  
Section 11: N/2

(g) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Bone Spring production and designated as the West Vacuum-Bone Spring Pool. The discovery well is the Amoco Production Company State HS Com Well No. 1 located in Unit K of Section 9, Township 18 South, Range 34 East, NMPM. Said pool would comprise:

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM  
Section 9: SW/4

(h) CREATE a new pool in Roosevelt County, New Mexico, classified as a gas pool for Granite Wash production and designated as the South Tanneyhill-Granite Wash Gas Pool. The discovery well is the Threshold Development Company Harris 14 Well No. 1 located in Unit B of Section 14, Township 6 South, Range 33 East, NMPM, currently classified as producing from the Pennsylvanian formation and in the Tanneyhill-Pennsylvanian Gas Pool. The well has been re-evaluated and the producing interval is more correctly defined as Granite Wash. Said pool would comprise:

TOWNSHIP 6 SOUTH, RANGE 33 EAST, NMPM  
Section 14: N/2



- (i) ABOLISH the Tanneyhill-Pennsylvanian Gas Pool in Roosevelt County, New Mexico, as heretofore classified, defined, and described as:

TOWNSHIP 6 SOUTH, RANGE 33 EAST, NMPM  
Section 14: All

- (j) EXTEND the Baum-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 33 EAST, NMPM  
Section 7: SE/4

- (k) EXTEND the Bilbrey-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 32 EAST, NMPM  
Section 4: N/2  
Section 5: NE/4

- (l) EXTEND the Blinebry Oil and Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM  
Section 33: NW/4

- (m) EXTEND the Scotleg Ridge-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 33 EAST, NMPM  
Section 17: W/2

- (n) EXTEND the Buffalo-Pennsylvanian Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM  
Section 9: N/2

- (o) EXTEND the North Peterson-Pennsylvanian Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 4 SOUTH, RANGE 33 EAST, NMPM  
Section 16: SE/4  
Section 20: NE/4

- (p) EXTEND the South Peterson-Pennsylvanian Associated Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 6 SOUTH, RANGE 33 EAST, NMPM  
Section 14: All

- (q) EXTEND the Sowell-Morrow Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 32 EAST, NMPM  
Section 11: NW/4

- (r) EXTEND the Wants-Abo Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM  
Section 9: NE/4



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY

April 7, 1982

POST OFFICE BOX 8088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-2434

Mr. K. A. Freeman  
Owner-Petroleum Engineer  
Tahoe Oil & Cattle Co.  
4402 W. Industrial  
Midland, Texas 79703

Re: Case No. 7548  
Salt Water Disposal  
Schwalbe Well No. 1  
Unit P of Section 21,  
T-9-S, R-37-E

Dear Mr. Freeman:

The above captioned case which was scheduled for the April 14, 1982 examiner hearing will be continued to June 9, 1982.

If this date is not satisfactory to you, please let me know before April 14.

Yours very truly,

Florence Davidson  
Staff Specialist

# TAHOE OIL & CATTLE CO.



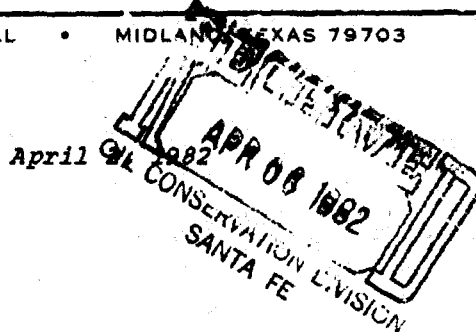
PHONE (915) 697-7938

• 4402 W. INDUSTRIAL

• MIDLAND, TEXAS 79703

State of New Mexico  
Energy and Minerals Dept.  
Oil Conservation Division  
Box 2066  
Santa Fe, New Mexico 87501

Attention: Florence Davidson



Case 7548

Re: Request for Extension  
Salt Water Disposal  
Schwalbe Well No. 1  
Section 21, T-9-S, R-37-E  
Lea County, New Mexico

Gentlemen:

It is my understanding that the above subject case is set for Hearing on April 14, 1982. It is hereby requested that this case be continued until sometime in May or June, 1982.

I sincerely appreciate anything you can do on the above request.

Yours very truly,

K. A. Freeman  
Owner-Petroleum Engineer

KAF/jj  
KF-14-82



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY

March 11, 1982

POST OFFICE BOX 8088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-8434

K. A. Freeman  
Owner-Petroleum Engineer  
Tahoe Oil & Cattle Co.  
4402 W. Industrial  
Midland, Texas 79703

*Case 7548*

Re: Salt Water Disposal  
Schwalbe Well No. 1  
Section 21, T-9-S, R-37-E  
Lea County, New Mexico

Dear Mr. Freeman:

Your application for salt water disposal for the above referenced well will be set for hearing on April 14, 1982. A copy of the docket will be forwarded to you as soon as it is printed.

Enclosed are copies of all waivers received in this office and one objection. If you have any further questions, please let me know.

Yours very truly,

Florene Davidson  
Staff Specialist

enc.

*West Sawyer San Andres Paul*

# Memo

From

PRENTISS CHILDS  
Planner

To

1-12-82

Called to inform them  
would have to have a  
Court Hearing on the application

Secretary will get someone  
to call back & set up date

Set up for Hearing  
on March 17, 1982

Oil Conservation

Santa Fe, New Mexico

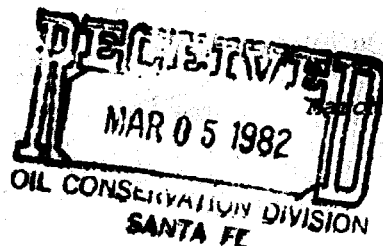
# TAHOE OIL & CATTLE CO.



PHONE (915) 697-7938

• 4402 W. INDUSTRIAL

• MIDLAND, TEXAS 79703



March 2, 1982

State of New Mexico  
Energy and Minerals Dept.  
Oil Conservation Division  
Box 2088  
Santa Fe, New Mexico 87501

Case 7548

Re: Application of Tahoe Oil &  
Cattle Co. to convert to In-  
jection Well Schwable #1  
Sec. 21, T-9-S, R-37-E  
Lea County, New Mexico

Gentlemen:

It is my understanding that the above subject case is set for Hearing on March 15, 1982. It is hereby requested that this case or application be continued until sometimes in April 1982.

As this application requests approval to inject produced formation waters into the producing San Andres formation I would like to obtain the names of the off-set operator's who have returned their letter of waiver to Santa Fe. The person who initiated the initial letters pertaining to this application is no longer here and my file regarding the correspondence is poor at best.

I sincerely appreciate anything you can do on the above requests.

Yours very truly,

*[Signature]*  
K. A. Freeman

Owner-Petroleum Engineer

KAF/jj  
KF-7-82

# TANOE OIL & CATTLE CO.



PHONE (915) 697-7938 • 4402 W. INDUSTRIAL • MIDLAND, TEXAS 79703

November 13, 1981

*Case 7548*

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

Re: Schwalbe No. 1  
Sec. 21, T9S, R37E  
Lea County, New Mexico

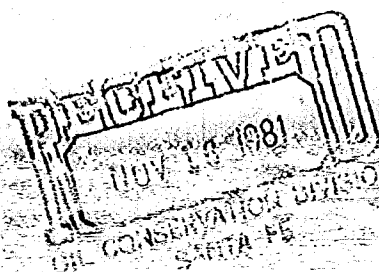
Gentlemen:

Enclosed please find application for permit to convert the above caption well to a Salt Water Injection well. A copy has been sent to all offset operators. If you have any questions, please advise.

Sincerely,

*Doug Carder*  
Doug Carder  
Prod. Super.

DC/jj  
DC-13-81

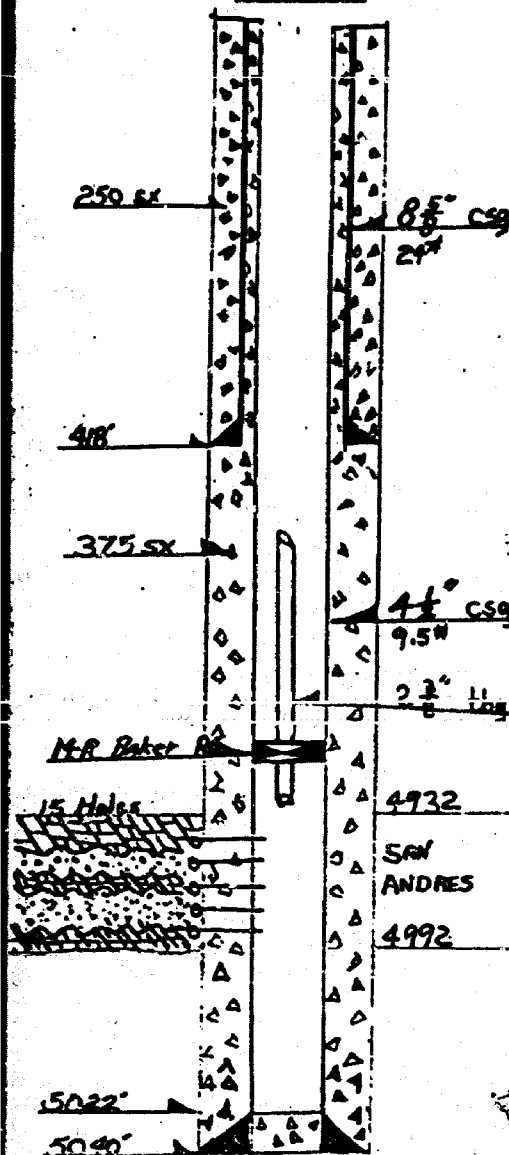


## INJECTION WELL DATA SHEET

Tahoe Oil & Cattle		Schwalbe	
OPERATOR		LEASE	
1	660' SL & 560' EL	21	9S
WELL NO.	PORTAGE LOCATION	SECTION	TOWNSHIP
			RANGE

Schematic

Tabular Data



## Surface Casing

Size 8-5/8 X 24# Cemented with 250 ex.TOC Cir. to surface feet determined by observationHole size 11"

## Intermediate Casing

Size        Cemented with        ex.TOC        feet determined by       Hole size       

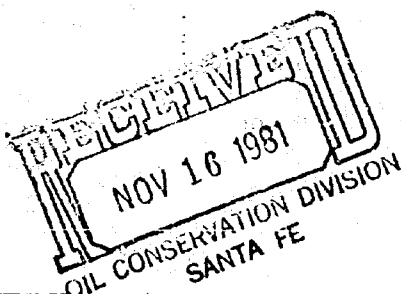
## Long string

Size 4 1/2 X 9.5# Cemented with 375 ex.TOC cir. to surface feet determined by observationHole size 7-7/8"Total depth 5040'

## Injection Interval

4932 feet to 4992 Perf. feet

(perforated or open-hole, indicate which)

Type of fluid injected Produced formation waterAnticipated Volumes injected 10/day Min. bbl. 50/day Max. bbl.Source of injected fluid San Andres formation

Case 7548

Casing size 2-3/8" X 4.70# lined with None set in a       

(material)

Model "R" (Loker)  
(brand and model)packer at 4900 ± feet

(or describe any other casing-tubing seal).

## Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (if applicable) Sawyer Unit
- Is this a new well drilled for injection? ☐ Yes ☒ No  
If no, for what purpose was the well originally drilled? Oil & Gas Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.  
San Andres Top 4188; Yates Top 2886; Buasler Top 2275



# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

NOV 16 1981

TAHOE OIL & CATTLE COMPANY

SCHWALBE

OIL CONSERVATION DIVISION

SANTA FE

P

21

9 South

37 East

Leo

Actual Location of Well

660

South

660

East

3960 S.

San Andres

West Sawyer

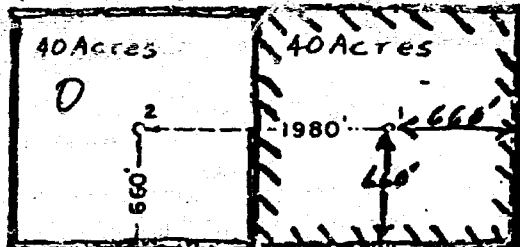
40 acres per well

1. Outline the acreage dedicated to the subject well in colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling etc?

☐ Yes ☐ No If answer is "yes" type of consolidation

If answer is "no" list the owners and tract descriptions which have actually been consolidated (on reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated by communitization, unitization, force-pooling, or otherwise (or until a non-standard unit, eliminating such interests, has been approved by the Commission.)



K. A. FREEMAN

PETROLEUM ENGINEER

TAHOE OIL & CATTLE CO.

September 2, 1977

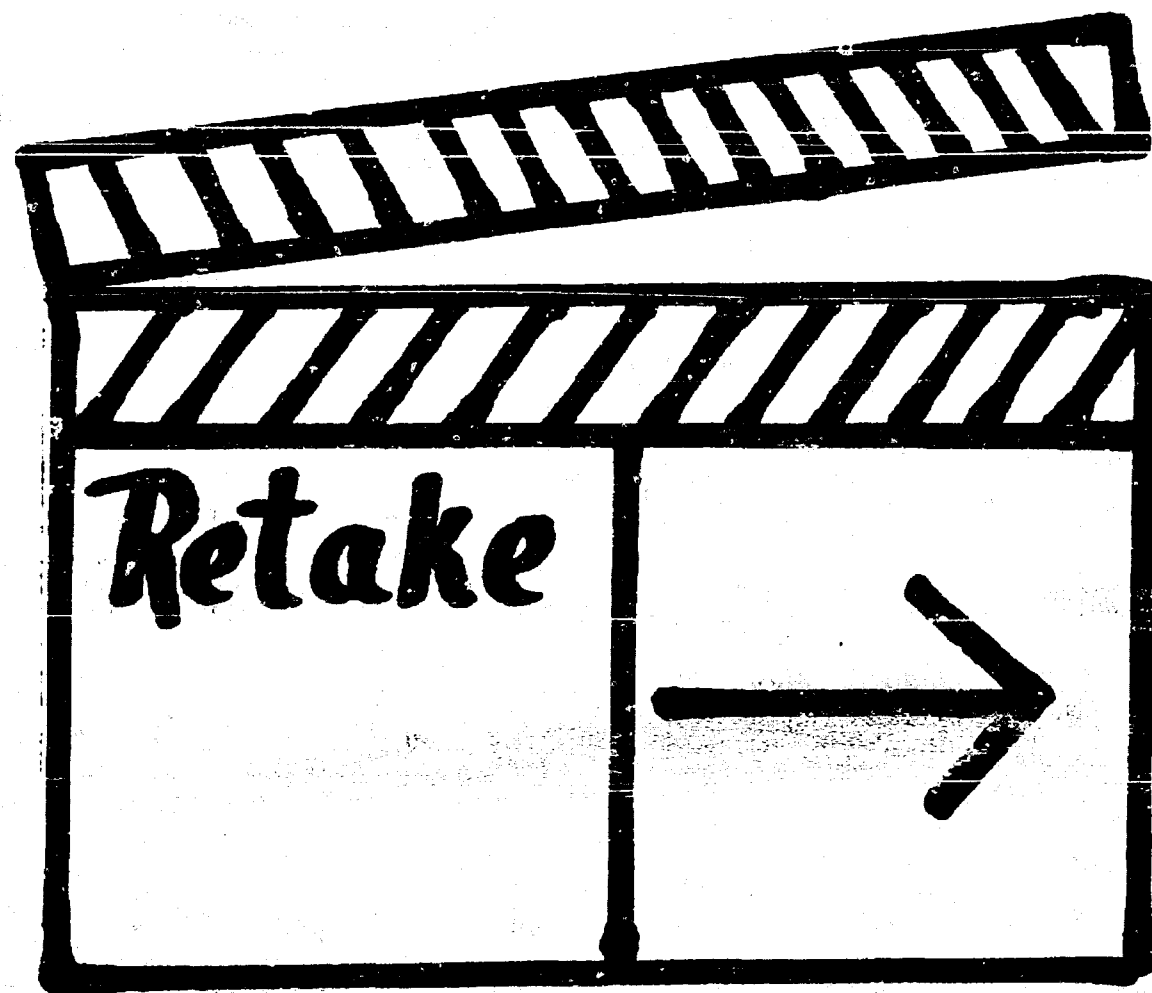
August 27, 1977

*Chmukert*

676

THE FOLLOWING DOCUMENTS WERE RETURNED DUE TO:

AN ERROR IN FILMING



# FEDERAL OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION

NOV 16 1981

All distances must be from the outer boundaries of the Section

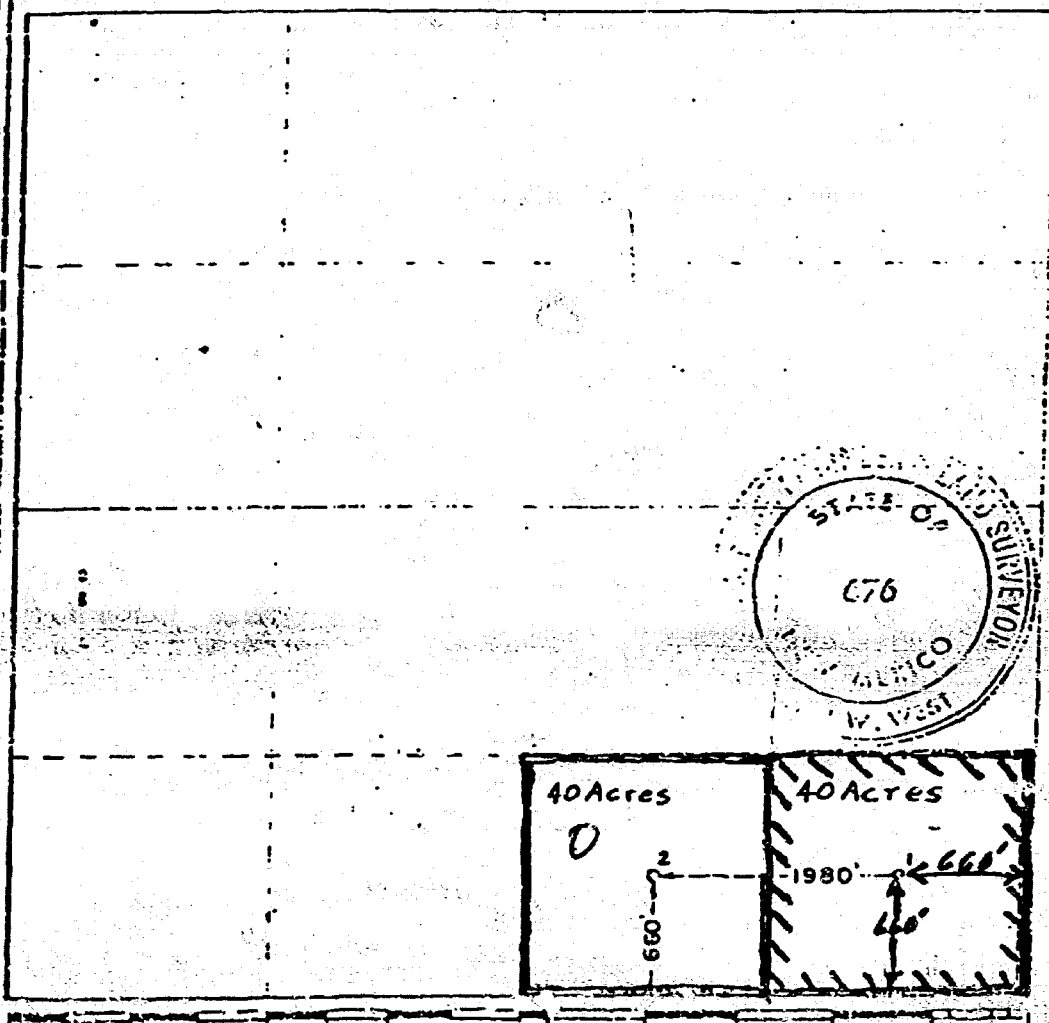
TAHOE OIL & CATTLE COMPANY		SCHWALBE		OIL CONSERVATION DIVISION	
Section	Range	Traverse	County	State	
P	21	9 South	37 East	LEO	
Actual Location of Well					
660	South	660	East		
3960.3	San Andres	West Sawyer	40 acres per well		

1. Outline the acreage dedicated to the subject well in colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, forced-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated (on reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated via communitization, unitization, forced-pooling, or otherwise (or until a non-standard unit, eliminating such interests, has been approved by the Commission).



The undersigned, being duly sworn, deposes and says that the foregoing is a true and correct copy of the original as the same appears to him.

*K. A. Freeman*  
K. A. FREEMAN

PETROLEUM ENGINEER

TAHOE OIL & CATTLE CO.

September 2, 1977

Subscribed and sworn to before me on the \_\_\_\_\_ day of \_\_\_\_\_, 1977.

August 27, 1977

*C. M. M. M.*

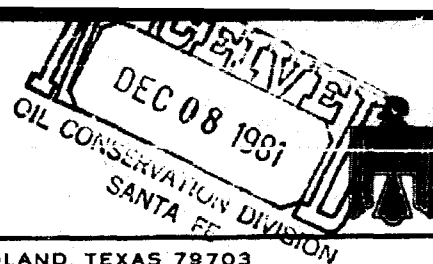
675

W.N.M.C.F. MICROGRAPHICS



# TAHOE OIL & CATTLE CO.

PHONE (915) 697-7938 • 4402 W. INDUSTRIAL • MIDLAND, TEXAS 79703



November 13, 1981

Oil Development Co.  
323 W. Kansas  
Jal New Mexico

Re: Schwalbe No. 1  
Section 21, T-9S, R-37E  
Lea County, New Mexico

Gentlemen:

The above reference well has fallen below its economic limit, and our company has applied for a permit to convert this well to a Salt Water Injection well. A copy of the application has been included, along with a letter of waiver. If there is no objections to the conversion of this well to a disposal well please forward the letter of waiver to the New Mexico Oil Conservation Commission.

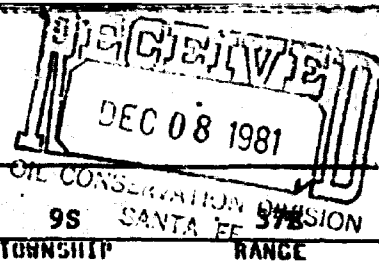
Yours very truly,

A handwritten signature in cursive script, appearing to read "Doug Carder".

Doug Carder  
Prod. Super.

DC/jj  
DC-8-81

## INJECTION WELL DATA SHEET



Tahoe Oil & Cattle		Schwalbe	
OPERATOR		LEASE	
1	660' SL & 560' EL	21	
WELL NO.	PORTAGE LOCATION	SECTION	TOWNSHIP RANGE
			9S SANTA FE 37E

## Schematic

## Tabular Data

## Surface Casing

Size 8-5/8 X 24# " Cemented with 250 sx.TOC Cir. to surface feet determined by observationHole size 11"

## Intermediate Casing

Size \_\_\_\_\_ " Cemented with \_\_\_\_\_ sx.

TOC \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole size \_\_\_\_\_

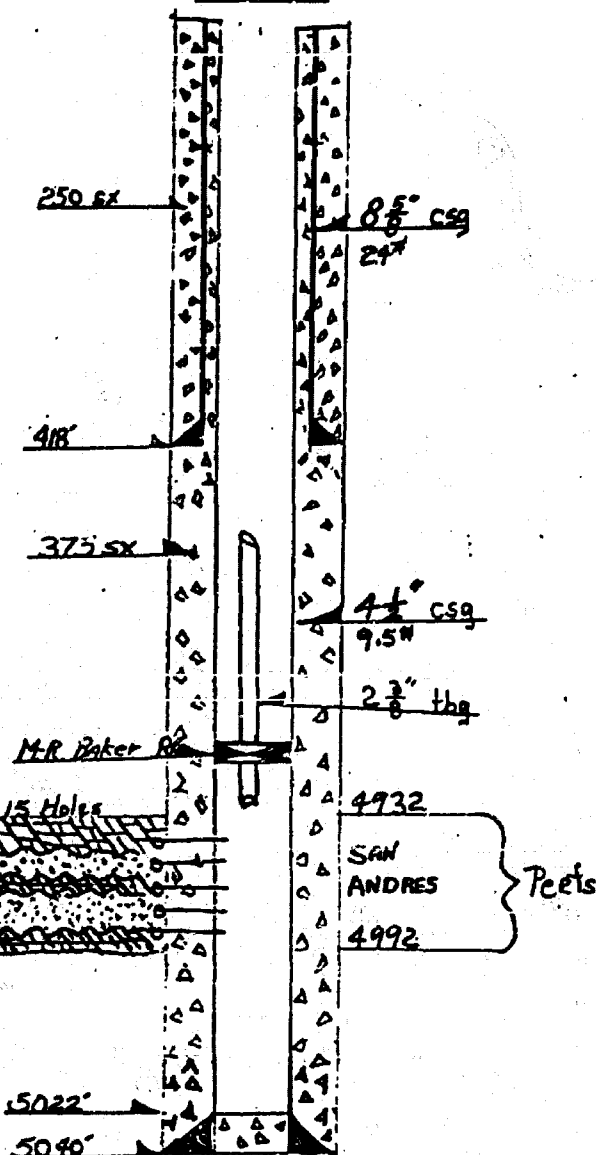
## Long string

Size 4 1/2 X 9.5# " Cemented with 375 sx.TOC cir. to surface feet determined by observationHole size 7-7/8"Total depth 5040'

## Injection interval

4932 feet to 4992 Perf. feet

(perforated or open-hole, indicate which)

Type of fluid injected Produced formation waterAnticipated Volumes injected 10/day Min bbl 50/day Max bblSource of injected fluid San Andres formationTubing size 2-3/8\" X 4.70# lined with None set in aModel "R" (Baker)

(brand and model)

packer at 4900 + feet

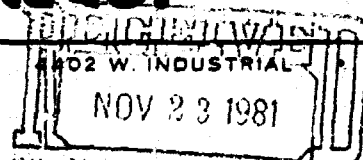
(or describe any other casing-tubing seal).

## Other Data

- Name of the injection formation San Andres
- Name of field or Pool (if applicable) Sawyer Unit
- Is this a new well drilled for injection? ☐ Yes ☒ No  
If no, for what purpose was the well originally drilled? Oil & Gas Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (socks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.  
San Andres Top 4188; Yates Top 2886; Russett Top 2275

# TAHOE OIL & CATTLE CO.

PHONE (915) 697-7938



MIDLAND, TEXAS 79703



November 13, 1981

New Mexico Oil Conservation  
Box 2088  
Santa Fe, New Mexico 87501

Re: Schwalbe No. 1  
Sec. 21, T-9-S, R-37-E  
Lea County, New Mexico

Gentlemen:

As one of the offset operators to the above reference well, our company does not object to the conversion of the well to a Water Injection Well.

Yours very truly,

MARATHON OIL COMPANY

A handwritten signature in dark ink, reading 'Clifford A. Miller'. The signature is written in a cursive style and is positioned above the printed name and title.

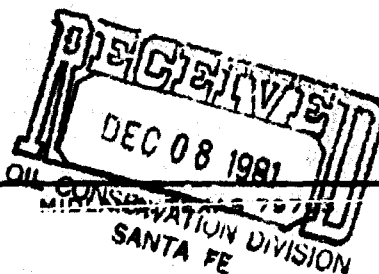
C. A. Miller  
District Engineer

11/19/81

# SAHOO OIL & CATTLE CO.

PHONE (915) 697-7938

4402 W. INDUSTRIAL



November 13, 1981

*Case 7548*

New Mexico Oil Conservation  
Box 2088  
Santa Fe, New Mexico 87501

Re: Schwalbe No. 1  
Sec. 21, T-9-S, R-37-E  
Lea County, New Mexico

Gentlemen:

As one of the offset operators to the above reference well, our company does ~~not~~ object to the conversion of the well to a Water Injection Well.

Yours very truly,

*SFECO objects to the disposal of water into  
a productive horizon.*

*Would prefer disposal into open hole interval  
with existing perfs squeezed off as our #6 SWD  
well is.*

SFECO

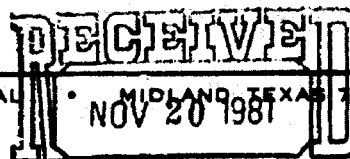
12-3-81

# TAHOE OIL & CATTLE CO.

PHONE (915) 697-7938

• 4402 W. INDUSTRIAL

• MIDLAND, TEXAS 79703



OIL CONSERVATION DIVISION  
SANTA FE

November 13, 1981

New Mexico Oil Conservation  
Box 2088  
Santa Fe, New Mexico 87501

Re: Schwalbe No. 1  
Sec. 21, T-9-S, R-37-E  
Lea County, New Mexico

Gentlemen:

As one of the offset operators to the above reference well, our company does not object to the conversion of the well to a Water Injection Well.

Yours very truly,

*Byron H. Greaves*

*Flag-Rodden Oil Co*

*P.O. Box 2220*

*Midland, Tx 79702*



APPLICATION FOR AUTHORIZATION TO INJECT

JUN 18 1982

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage  
Application qualifies for administrative approval? ☐ yes ☒ no

SANTA FE DIVISION

II. Operator: Tahoe Oil & Cattle Company

Address: 4402 W. Industrial Avenue Midland, Texas 79703

Contact party: K. A. Freeman Phone: (915) 697-7938

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ yes ☒ no  
If yes, give the Division order number authorizing the project \_\_\_\_\_.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

\* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

\*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

\* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

\* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Tahoe Oil & Cattle Company Title: Owner-Petroleum Engineer

Signature: K. A. Freeman Date: June 7, 1982

\* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

**III. WELL DATA**

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

**XIV. PROOF OF NOTICE**

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

**NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.**

---

**NOTICE:** Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

VI.

CASE 7548 - APPLICATION OF TAHOE OIL & CATTLE COMPANY FOR SALT WATER DISPOSAL,  
LEA COUNTY, NEW MEXICO.

OIL DEVELOPMENT CO. OF TEXAS #8 SANTA FE PACIFIC - 1980' FNL, 660' FEL, SECTION 28, IP FLOW 153 BOPD - COMP 12-4-'70, T.D. 5030' - CASING 8-5/8" @ 420' W/325 SX 4 1/2" @ 5030' W/250 SX. - PERF 4936' TO 4992' - AC W/5000 - NO WATER - EL 3980 K/B

OIL DEVELOPMENT CO. OF TEXAS - FEDERAL NO. 2-27 - 1980 FNL, 660' FWL SECTION 27, IP PUMP 84 BO & 29 BW COMP 12-28-76, T.D. 5024' - CASING 8-5/8" @ 427' - 4 1/2" @ 5024' W/250 SX., AC W/9000 - PERF 4950 to 5013 EL 3983

JOHN L. COX - T.P. FEDERAL NO. 2 - 850' FNL & 1980' FWL, SECTION 27, IP PUMP 78 BO & 12 BWPD, COMP 9-15-'74, T.D. 5100' - CASING 8-5/8" @ 411' W/125 SX. - 4 1/2" @ 5100' W/2500 SX - PERF 4957' to 5007' AC W/5000 EL 3979

OIL DEVELOPMENT COMPANY OF TEXAS - FEDERAL "27" NO. 1 - 660 FNL & 660 FWL - SECTION 27 IP PUMP 166 BOPD, COMP. 8-11-'71, T.D. 5030' - P.B. 5015' - CASING 8-5/8" @ 458' W/325 SX - 4 1/2" @ 5030' W/250 SX - PERF 4944' to 4960' & 4979' to 4996' - AC W/215 & FRAC W/8000 GALS AW & 200 BEADS - EL 3980

TAHOE OIL & CATTLE COMPANY - NO. 2 ARCO FEDERAL - 660' FNL & 660' FEL - SECTION 28, IP PUMP 96 BO & 22 BWPD, COMP 1-23-'77 - T.D. 5037' - P.B. 5022' - CASING 8-5/8" @ 460' W/375 SX - 4 1/2" @ 5037' W/700 SX - PERF 4910 to 5004' - AC W/7000 & FRAC W/8000 - EL 3978

D & B OIL INC. NO. 1 ARCO - 66' FNL & 2180' FEL - SECTION 28, IP FLOW 120 BOPD - COMP 1-4-'71 - T.D. 5040' - CASING 8-5/8" @ 416' W/250 SX. - 4 1/2" @ 5040' W/375 SX, PERF 4920 to 4992 - AC W/9000 EL 3979

TAHOE OIL & CATTLE CO. NO. 2 - SCHWALBE - 660' FNL & 1980' FEL - SECTION 21 - IP 36 BO & 20 BWPD - COMP 11-26-'77 - T.D. 5044' P.B. 5040' - CASING 8-5/8" @ 460' W/350 SX, 4 1/2" @ 5044' W/700 SX. PERF 4921' to 5006' AC W/7000 & FRAC W/6000 GAL & 12,000 SAND EL 3983

D & B OIL INC., NO. 1 SCHWALBE - 660' FSL & 560' FEL SECTION  
21 - IP 158 BOPD - COMP. 4-4-'71 - T.D. 5040' - CASING 8-5/8"  
@ 418' W/250 SX - 4½" @ 5040' W/375 SX. PERF 4932' to 4954' &  
4976' to 4992' - AC W/9000 EL 3981

OIL DEVELOPMENT CO. OF TEXAS NO. 2 FEDERAL "22" - 660' FSSL -  
SECTION 22 - COMP. 10-29-'77 - IP PUMP 16 BOPD & 61 BWPD - T.D.  
5023' - CASING 8-5/8" @ 434' W/275 SX. - 4½" @ 5023' W/1050 SX  
PERF 4920' to 4994' - AC W/9000 - EL 3983

OIL DEVELOPMENT CO. OF TEXAS NO. 1 FEDERAL "22" - 660 FSL & 1980'  
FWL - SECTION 22 - IP PUMP 21 BOPD & 62 BW - COMP 1-29-'71 - T.D.  
5050' P.B. 5031' - CASING 8-5/8" @ 450' W/325 SX. 4½" @ 5050' W/  
250 SX. - PERF 4959' to 4982' AC W/6650 & 100# BEADS EL 3981

JOHN L. COX NO. 1 ROIL - 2121' FNL - 519' FEL - SECTION 21 - IP  
959,000 CFGPD - T.D. 5005' - COMP. 11-20-'73 - CASING 8-5/8" @ 424'  
W/325 SX - 4½" 5005' W/250 SX PERF 4940' to 4992' AC W/7000 EL  
3987

III.

A.

pressure gauges  
(Braden Head)

Schwalbe #1  
Unit P Sec. 21, T9-S, R37-E  
Lea County, New Mexico  
660' FSL & 560' FEL  
Elevation 3960.3'

$8\frac{5}{8}, 24\frac{1}{2}'' @ 418'$  (250 sx)  
cement circulated

$4\frac{1}{2}'' \times 2\frac{3}{8}''$  annulus  
Filled with inhibited fluid

calculated top of cmt. @ 2250'

$2\frac{3}{8}''$  tubing @ 4900' (internal plastic coated)

Baker AD-1 Tension Pkr. @ 4900'  
with 8000# tension

Perforations 4932' to 4992'

$4\frac{1}{2}'' 9.5\frac{1}{2}'' @ 5040'$   
Cmt. with 375 sx.

# TAHOE OIL & CATTLE CO.



PHONE (915) 697-7938 • 4402 W. INDUSTRIAL • MIDLAND, TEXAS 79703

## VII.

1. Anticipated daily injection volume (bbls.); 50 to 200
2. Type system-open
3. Injection pressure-500 psig to 2000 psig - 986 bbls.
4. Source of water-produced San Andres formation water. Water analysis attached. See copies A, B, and C.
5. Produced water will be injected into zone it is produced from.

## VIII.

The San Andres formation produces at an approximate depth of 4,950 to 5,000 feet. It is of Permian age and is approximately 1,200 feet thick. It consists of brown, finely crystalline dolomite associated with anhydrite nodules and stringers. There are also locally thin shale stringers

All known fresh water of 10,000 mg/l or less is found below the surface to a depth of 350 feet. There is no known source of fresh water of 10,000 mg/l or less below the San Andres formation.

*states  
Nothing of  
water wells*

## IX.

No stimulation program is planned.

## X.

Electrical logs were submitted on the Schwalbe #1 in 1977 when the well was completed. See exhibit D.

## XI.

There are no fresh water wells in the "area of review."

## XII.

after careful examination, Tahoe Oil & Cattle has found no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

## XIII.

See article III, section B

DOWELL

## DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

An Operating Unit of The Dow Chemical Company

LABORATORY LOCATION

## API WATER ANALYSIS REPORT FORM

DATE

LAB NO.

Company <i>TAMCO</i>		Sample No.		Date Sampled <i>6-3-82</i>	
Field		Legal Description <i>SEC 23-</i>		County or Parish <i>LEA</i>	
Lease or Unit <i>ARC-4 SWARTY LEASE</i>		Well		State <i>TX</i>	
Type of Water (Produced, Supply, etc.)		Depth		Formation <i>SEA ANCHORS</i>	
Sampling Point		Water, B/D		Sampled By	

## DISSOLVED SOLIDS

## CATIONS

mg/L      me/L

1. 6 Sodium, Na (calc.) 81,200 3530  
 4. 1 Calcium, Ca 12800 640  
 Magnesium, Mg 12200 1000  
 Barium, Ba \_\_\_\_\_

## ANIONS

12. 9 Chloride, Cl 183,200 5170  
 Sulfate, SO<sub>4</sub> \_\_\_\_\_  
 Carbonate, CO<sub>3</sub> 0 \_\_\_\_\_  
 Bicarbonate, HCO<sub>3</sub> 0 \_\_\_\_\_

Total Dissolved Solids (calc.) \_\_\_\_\_

Iron, Fe (total) \_\_\_\_\_  
 Sulfide, as H<sub>2</sub>S \_\_\_\_\_

## OTHER PROPERTIES

pH

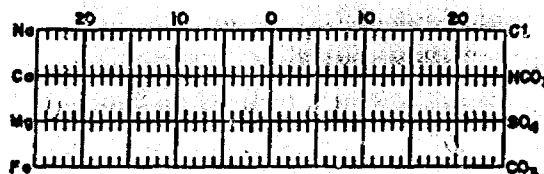
Specific Gravity, 60/60 F.

Resistivity (ohm-meters) \_\_\_\_\_ F.

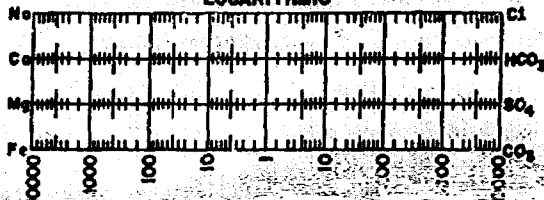
6.55  
6.0  
1.205

## WATER PATTERNS — me/L

## STANDARD



## LOGARITHMIC



REMARKS &amp; RECOMMENDATIONS:



# TRETOLITE DIV ION

283 Marshall Avenue / Saint Louis, Missouri 63110  
(314) WO 1-3500/TWX DIC-750-1660/Telex 44-2417

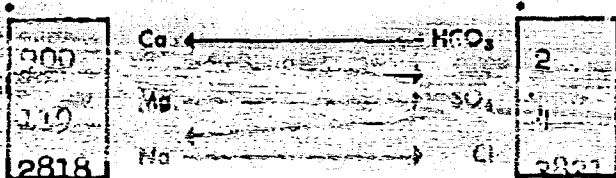
## WATER ANALYSIS REPORT

COMPANY Tahoe Oil & Cattle ADDRESS Kermit Tx. DATE 3-31-80

SOURCE Schwalbe #1 Well File DATE SAMPLED 3-15-80 ANALYSIS NO.           
Analysis Mg/L \*Meq/L

- |  |               |                                  |                           |
|--|---------------|----------------------------------|---------------------------|
| 1. PH  | <u>4.8</u>    |                                  |                           |
| 2. H <sub>2</sub> S (Qualitative)                  | <u>23 ppm</u> |                                  |                           |
| 3. Specific Gravity                                | <u>1.175</u>  |                                  |                           |
| 4. Dissolved Solids                                |               | <u>220,457</u>                   |                           |
| 5. Suspended Solids                                |               | <u>        </u>                  |                           |
| 6. Phenolphthalein Alkalinity (CaCO <sub>3</sub> ) |               | <u>0</u>                         |                           |
| 7. Methyl Orange Alkalinity (CaCO <sub>3</sub> )   |               | <u>100</u>                       |                           |
| 8. Bicarbonate (HCO <sub>3</sub> )                 |               | HCO <sub>3</sub> <u>122</u> ÷ 61 | <u>2</u> HCO <sub>3</sub> |
| 9. Chlorides (Cl)                                  |               | Cl <u>136,000</u> ÷ 35.5         | <u>3831</u> Cl            |
| 10. Sulfates (SO <sub>4</sub> )                    |               | SO <sub>4</sub> <u>200</u> ÷ 48  | <u>4</u> SO <sub>4</sub>  |
| 11. Calcium (Ca)                                   |               | Ca <u>18,000</u> ÷ 20            | <u>900</u> Ca             |
| 12. Magnesium (Mg)                                 |               | Mg <u>1458</u> ÷ 12.2            | <u>119</u> Mg             |
| 13. Total Hardness (CaCO <sub>3</sub> )            |               | <u>51,000</u>                    |                           |
| 14. Total Iron (Fe)                                |               | <u>        </u>                  |                           |
| 15. Barium (Qualitative)                           |               |                                  |                           |
| 16.  |               |                                  |                           |
- \*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION



Saturation Values Distilled Water 20°C  
Ca CO<sub>3</sub> 13 Mg/L  
Ca SO<sub>4</sub> • 2H<sub>2</sub>O 2,090 Mg/L  
Mg CO<sub>3</sub> 103 Mg/L

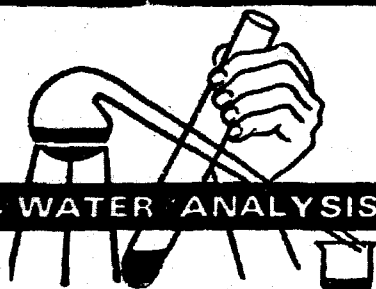
Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca (HCO <sub>3</sub> ) <sub>2</sub>	81.04	2			162
Ca SO <sub>4</sub>	65.07	4			272
Ca Cl <sub>2</sub>	55.50	800			44,400
Mg (HCO <sub>3</sub> ) <sub>2</sub>	73.17	-0-			-0-
Mg SO <sub>4</sub>	60.19	-0-			-0-
Mg Cl <sub>2</sub>	47.62	119			5,666
Na HCO <sub>3</sub>	84.00	-0-			-0-
Na <sub>2</sub> SO <sub>4</sub>	71.03	-0-			-0-
Na Cl	58.46	2818			164,740

Freeman

Respectfully submitted  
TRETOLITE COMPANY

Mark Adkins





## WATER ANALYSIS REPORT



BOX 4513  
ODESSA, TEXAS 79760

SERVICE LABORATORY: Odessa, Texas Phone (915) 362-2353 & 563-0863  
RESEARCH LABORATORY: Houston, Texas Phone (713) 431-2561  
PLANT: Odessa, Texas Phone (915) 362-2353 & 563-0863

REPORT FOR	James Sellars	DATE SAMPLED	10/3/78
CC	Clyde Harrison	DATE REPORTED	10/5/78
CC		FIELD, LEASE, OR WELL	as listed below
CC		COUNTY	N. Mex.
COMPANY	Tahoe Oil & Cattle Co.	FORMATION	
ADDRESS		DEPTH	
SERVICE ENGINEER	Troy Gladden	SUBMITTED BY	Troy Gladden

### CHEMICAL ANALYSIS (AS PARTS PER MILLION)

Chemical Component	Field, Lease, or Well					
	T.P. Federal #1	Arco #2	* Schwalbe #1	* Schwalbe #2		
Chloride (Cl)	192,000	166,000	187,000	174,000		
Iron (Fe)						
Total Hardness (Ca CO <sub>3</sub> )	121,100	69,900	74,400	78,300		
Calcium (Ca)	24,800	15,400	16,240	17,160		
Magnesium (Mg)	14,361.3	7,630.2	8,213.4	8,602.2		
Bicarbonate (HCO <sub>3</sub> )	19.52	124.44	17.08	12.2		
Carbonate (CO <sub>3</sub> )	neg.	neg.	neg.	neg.		
Sulfate (SO <sub>4</sub> )	300	700	800	900		
Hydrogen Sulfide (H <sub>2</sub> S)	strong	mild	mild	0		
Specific Gravity						
Density, lb./gal.						
pH - Meter or Strip (1)	5.6	6.1	5.6	5.4		

### OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

Arco #1 and Clair #1 were down. Will catch samples ASAP.

REPORTED BY Ginger Rohloff TITLE Chemist

# TAHOE OIL & CATTLE CO.



PHONE (915) 697-7938 • 4402 W INDUSTRIAL • MIDLAND, TEXAS 79703

## III.

### B.

1. San Andres, West Sawyer Field
2. Perforated section 4,932' to 4,992' in 4 1/2" production casing.
3. Drilled as a producing oil well.
4. None
5. There are no known productive zones of oil or gas either above or below the San Andres formation.

<p>• <b>RECEIVER:</b> Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.</p> <p>(CONSULT POSTMASTER FOR FEES)</p> <p>1. The following service is requested (check one):</p> <p><input checked="" type="checkbox"/> Show to whom and date delivered.</p> <p><input type="checkbox"/> Show to whom, date, and address of delivery.</p> <p><input type="checkbox"/> <b>RESTRICTED DELIVERY</b> (The restricted delivery fee is charged in addition to the return receipt fee.)</p> <p>TOTAL \$</p>	
<p>2. ARTICLE ADDRESSED TO:</p> <p><i>Santa Fe Energy Co</i> <i>Amesville</i></p>	
<p>3. TYPE OF SERVICE:</p> <p><input checked="" type="checkbox"/> REGISTERED <input type="checkbox"/> REGISTERED MAIL <input type="checkbox"/> REGISTERED MAIL WITH RETURN RECEIPT</p> <p>ARTICLE NUMBER: <i>200</i></p> <p>POSTAGE: <i>21.00</i></p>	
<p>(Always obtain signature of addressee or agent.)</p> <p>I have received the article described above.</p> <p>SIGNATURE <input checked="" type="checkbox"/> Addressee <input type="checkbox"/> Authorized agent</p> <p><i>[Signature]</i></p> <p>DATE OF DELIVERY: <i>6-11-82</i></p> <p>POSTOFFICE: <i>[Stamp]</i></p>	
<p>4. UNABLE TO DELIVER REASON:</p> <p>7a. EMPLOYER'S DETAILS:</p>	

<p>• <b>RECEIVER:</b> Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.</p> <p>(CONSULT POSTMASTER FOR FEES)</p> <p>1. The following service is requested (check one):</p> <p><input checked="" type="checkbox"/> Show to whom and date delivered.</p> <p><input type="checkbox"/> Show to whom, date, and address of delivery.</p> <p><input type="checkbox"/> <b>RESTRICTED DELIVERY</b> (The restricted delivery fee is charged in addition to the return receipt fee.)</p> <p>TOTAL \$</p>	
<p>2. ARTICLE ADDRESSED TO:</p> <p><i>John L. Cap</i> <i>408 W Wall</i></p>	
<p>3. TYPE OF SERVICE:</p> <p><input checked="" type="checkbox"/> REGISTERED <input type="checkbox"/> REGISTERED MAIL <input type="checkbox"/> REGISTERED MAIL WITH RETURN RECEIPT</p> <p>ARTICLE NUMBER: <i>120-999</i></p> <p>POSTAGE: <i>1.20</i></p>	
<p>(Always obtain signature of addressee or agent.)</p> <p>I have received the article described above.</p> <p>SIGNATURE <input type="checkbox"/> Addressee <input type="checkbox"/> Authorized agent</p> <p><i>[Signature]</i></p> <p>DATE OF DELIVERY: <i>6-11-82</i></p> <p>POSTOFFICE: <i>[Stamp]</i></p>	
<p>4. UNABLE TO DELIVER REASON:</p> <p>7a. EMPLOYER'S DETAILS:</p>	

# TAHOE OIL & CATTLE CO.



PHONE (915) 697-7938

4402 W. INDUSTRIAL

MIDLAND, TEXAS 79703

PM  
2861

● SENDER: Complete items 1, 2, 3, and 4.  
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one):

☐ Show to whom and date delivered .....  
☐ Show to whom, date, and address of delivery..  
☐ RESTRICTED DELIVERY  
 (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

2. ARTICLE ADDRESSED TO:  
 R.E. Hardberger  
 402 Ave M  
 Beaver, Okla 73932

3. TYPE OF SERVICE:

☐ REGISTERED ☐ INSURED  
☐ CERTIFIED ☐ COD  
☐ EXPRESS MAIL

ARTICLE NUMBER

(Always obtain signature of addressee or agent)

I have received the article described above.

SIGNATURE ☐ Addressee ☐ Authorized agent

DATE OF DELIVERY  
 6-11-82

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE

7a. REASON FOR RETURN

BEAVER OKLA JUN 11 1982 USPO

PM  
2861

● SENDER: Complete items 1, 2, 3, and 4.  
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one):

☒ Show to whom and date delivered .....  
☐ Show to whom, date, and address of delivery..  
☐ RESTRICTED DELIVERY  
 (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

2. ARTICLE ADDRESSED TO:  
 Ike Livelady

3. TYPE OF SERVICE:

☐ REGISTERED ☐ INSURED  
☐ CERTIFIED ☐ COD  
☐ EXPRESS MAIL

ARTICLE NUMBER  
 P 206  
 121-001

(Always obtain signature of addressee or agent)

I have received the article described above.

SIGNATURE ☐ Addressee ☒ Authorized agent

DATE OF DELIVERY  
 6-10-82

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE

7a. REASON FOR RETURN

POSTMARK JUN 10 1982 TX

或曰

Supervised By  
**Electrical Log Services**  
Houston, Texas 77058

**REFERENCES**

**W 491.3P**

**ELS!**

10 COMPLETION RECORD

**REF DATE**

**CONF DATE**

**NOT RECORDED**

APR 28-025-22724

**THE SUBSURFACE LIBRARY •**  
**P. O. BOX 942**  
**MIDLAND, TEXAS 79701**

## CASE REPORT

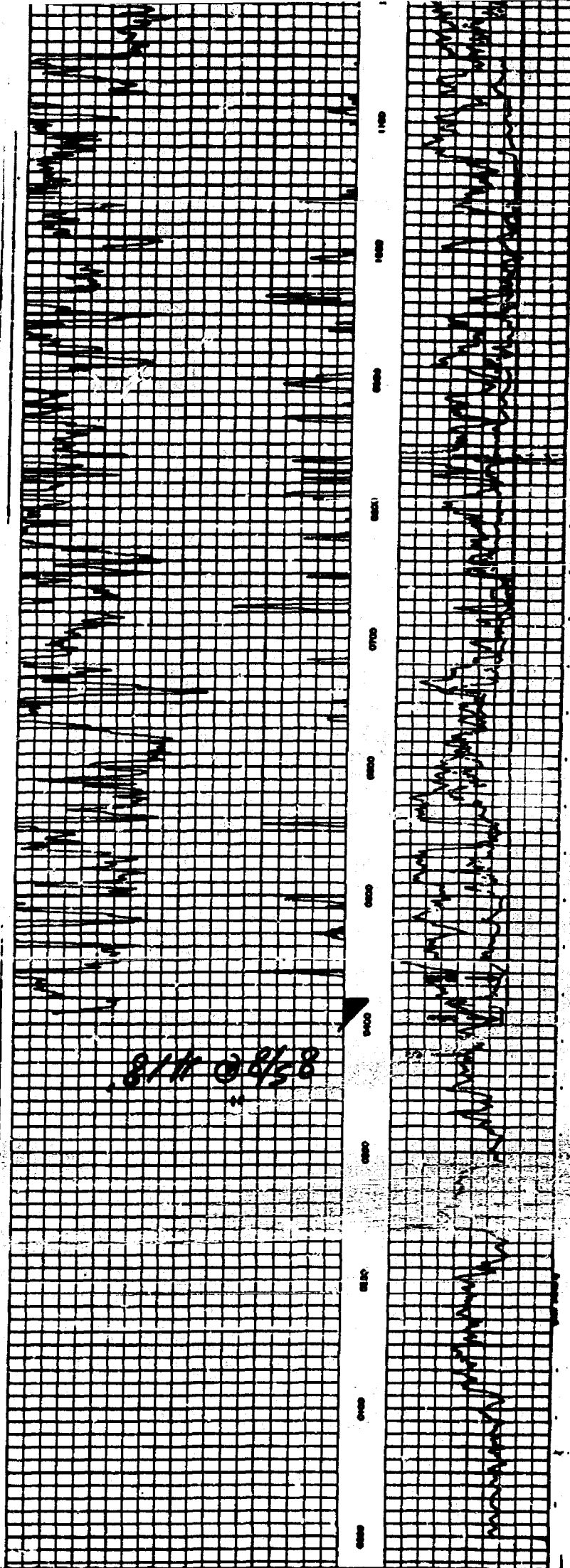
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[illegible]

W.N.M.C.F. MICROGRAPHICS



BEST AVAILABLE COPY



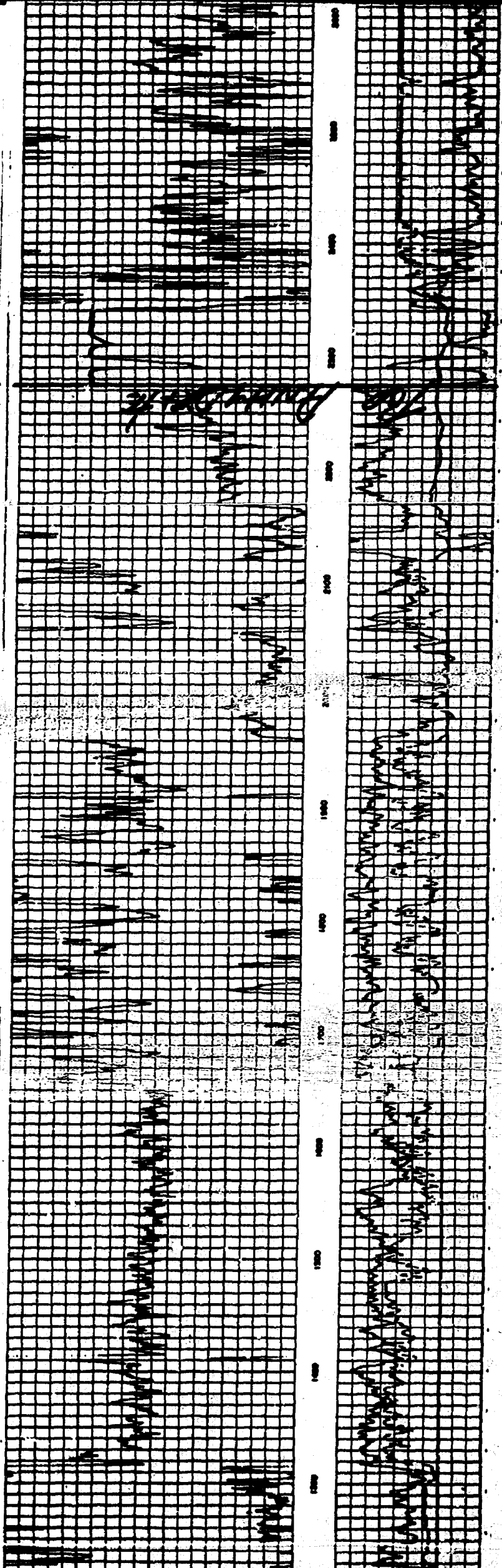
8/17 @ 8/58

<p>POSSIBILITY %</p>	<p>8/17 @ 8/58</p>	<p>GAMMA RAY 8 CALIBER 10 AP/10 100 AP/10 1000 AP/10</p>
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W.N.M.C.F. MICROGRAPHICS



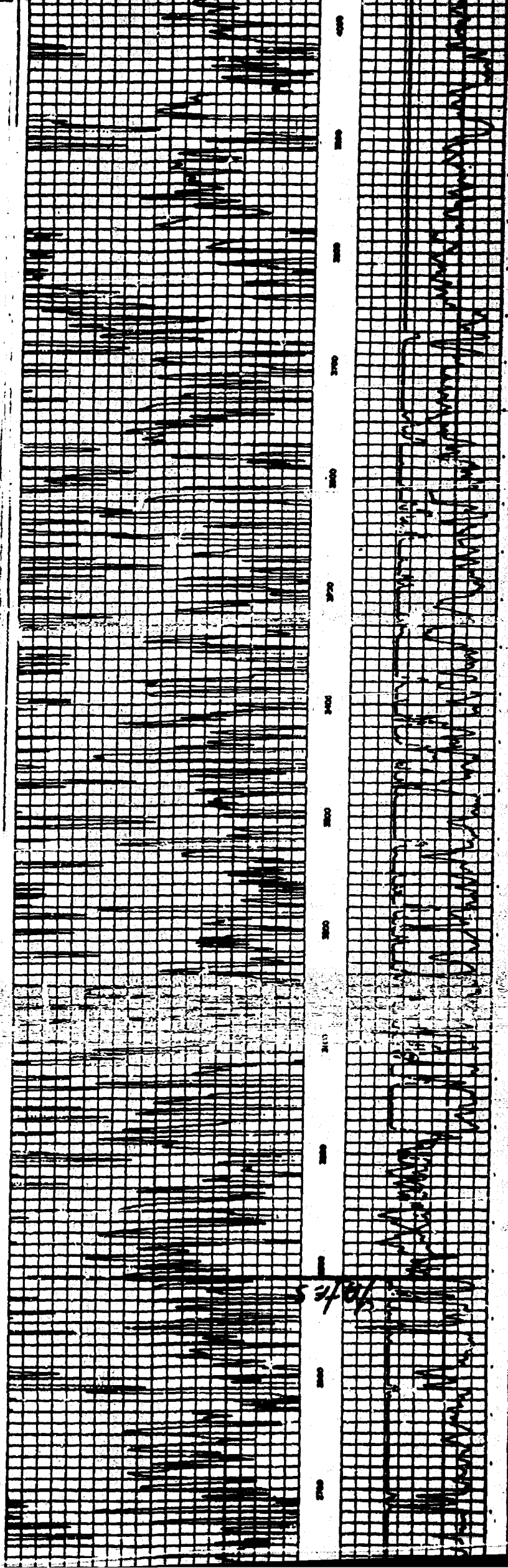
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W.N.M.C.F. MICROGRAPHICS

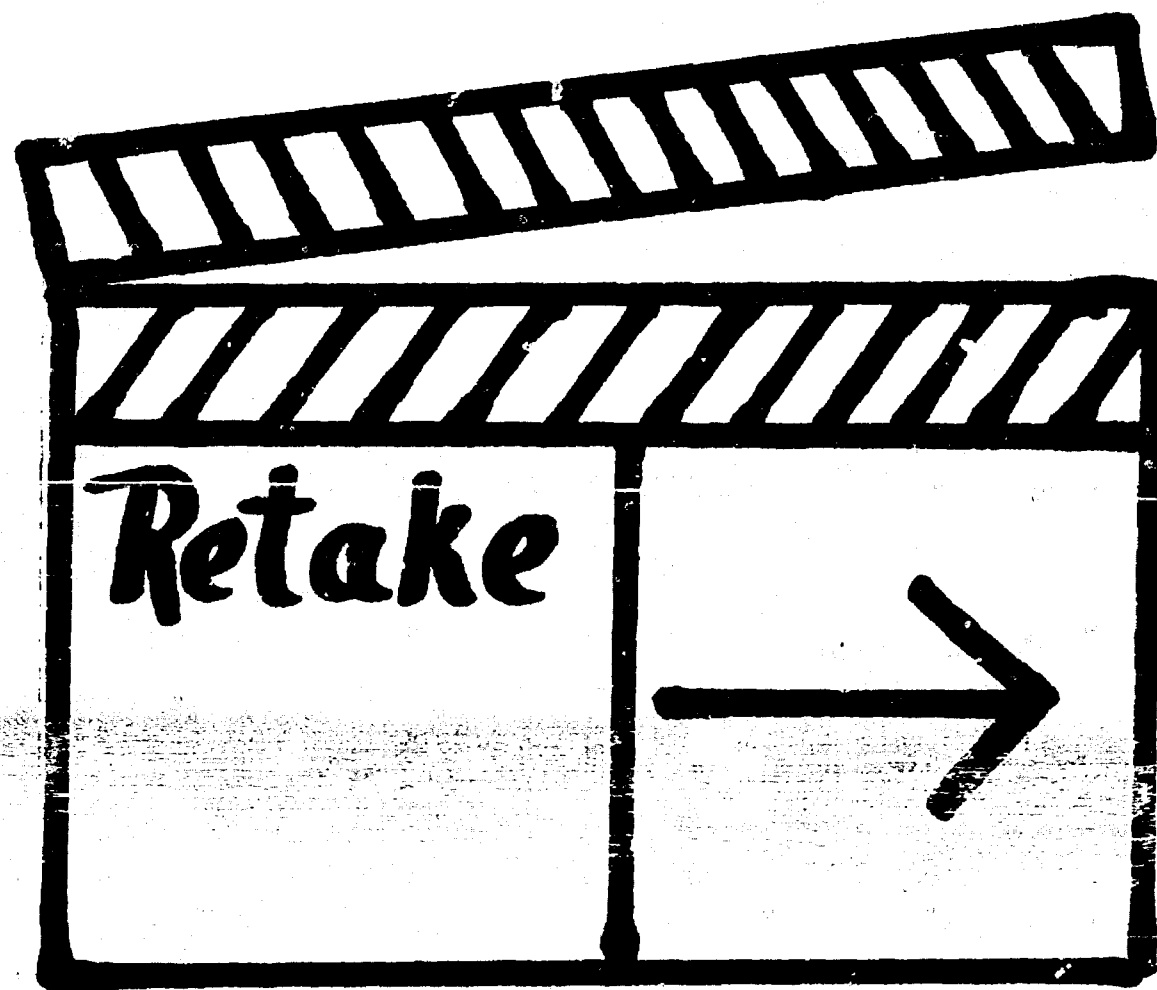


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THE FOLLOWING DOCUMENTS WERE RETURNED DUE TO:

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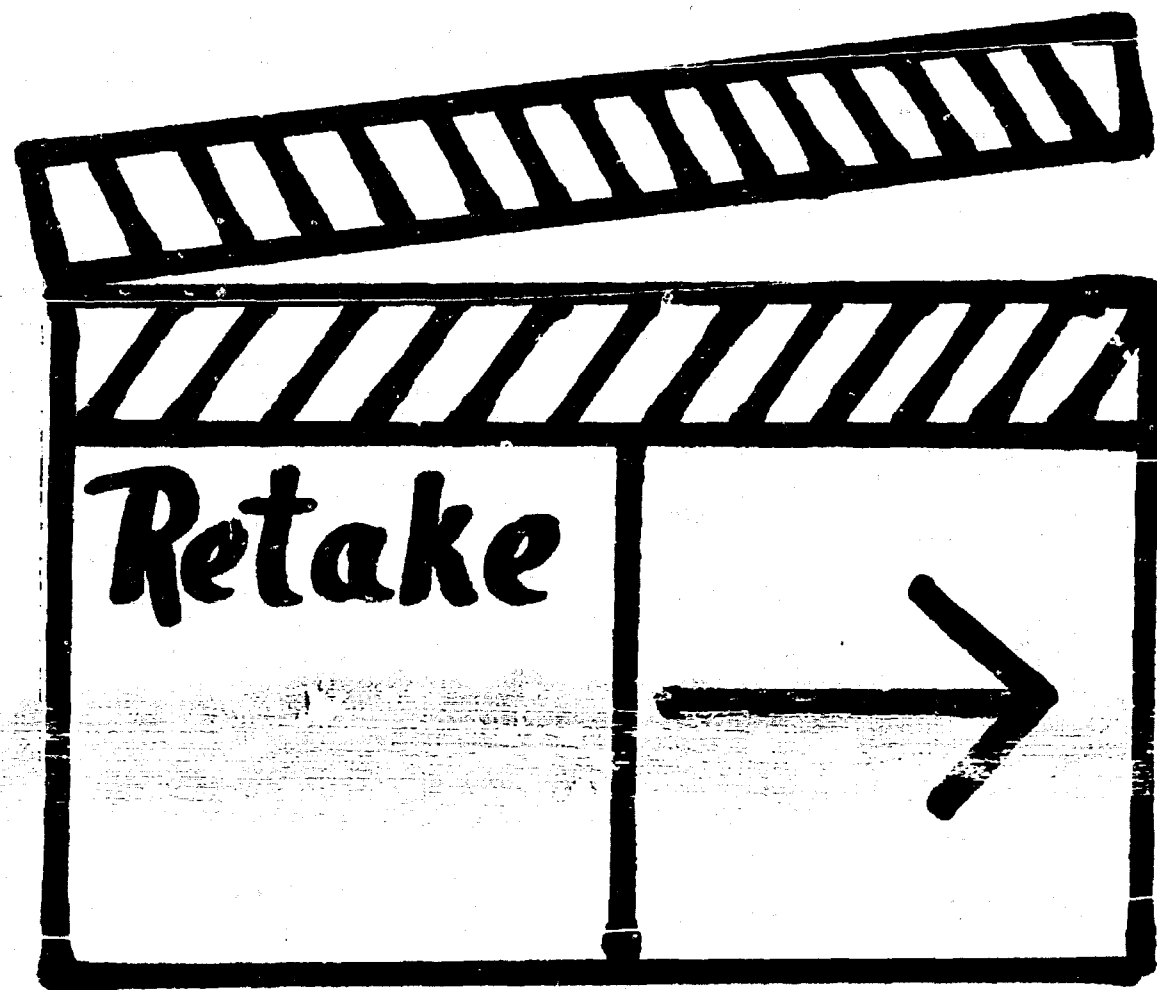


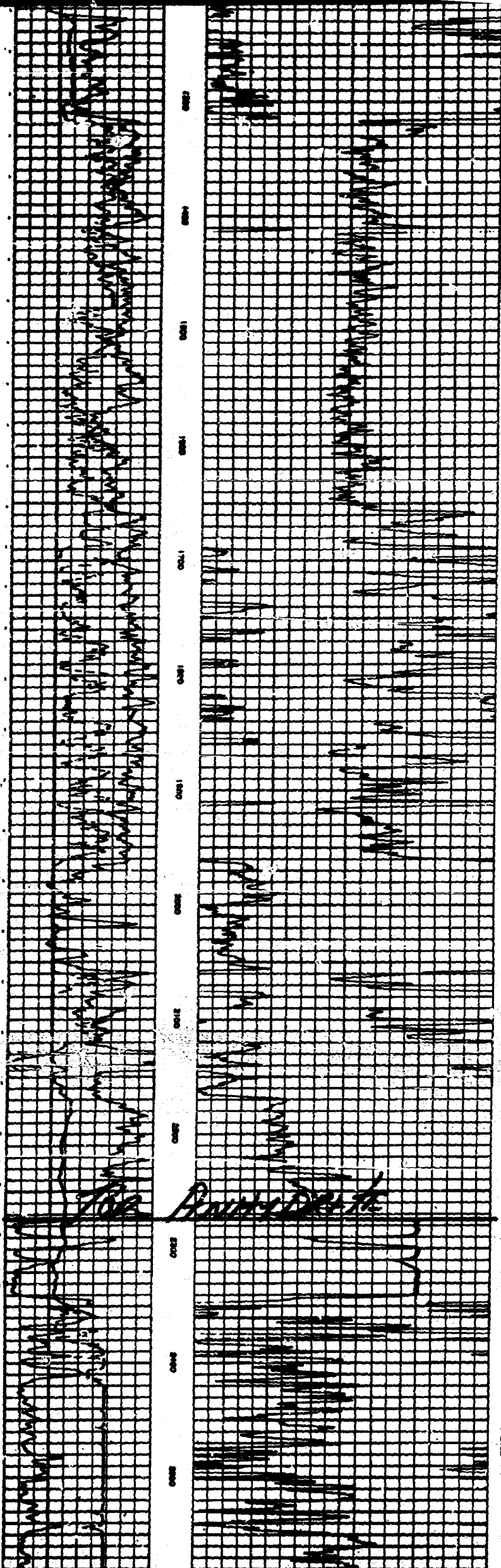




THE PRECEDING DOCUMENTS WERE REFILMED DUE TO:

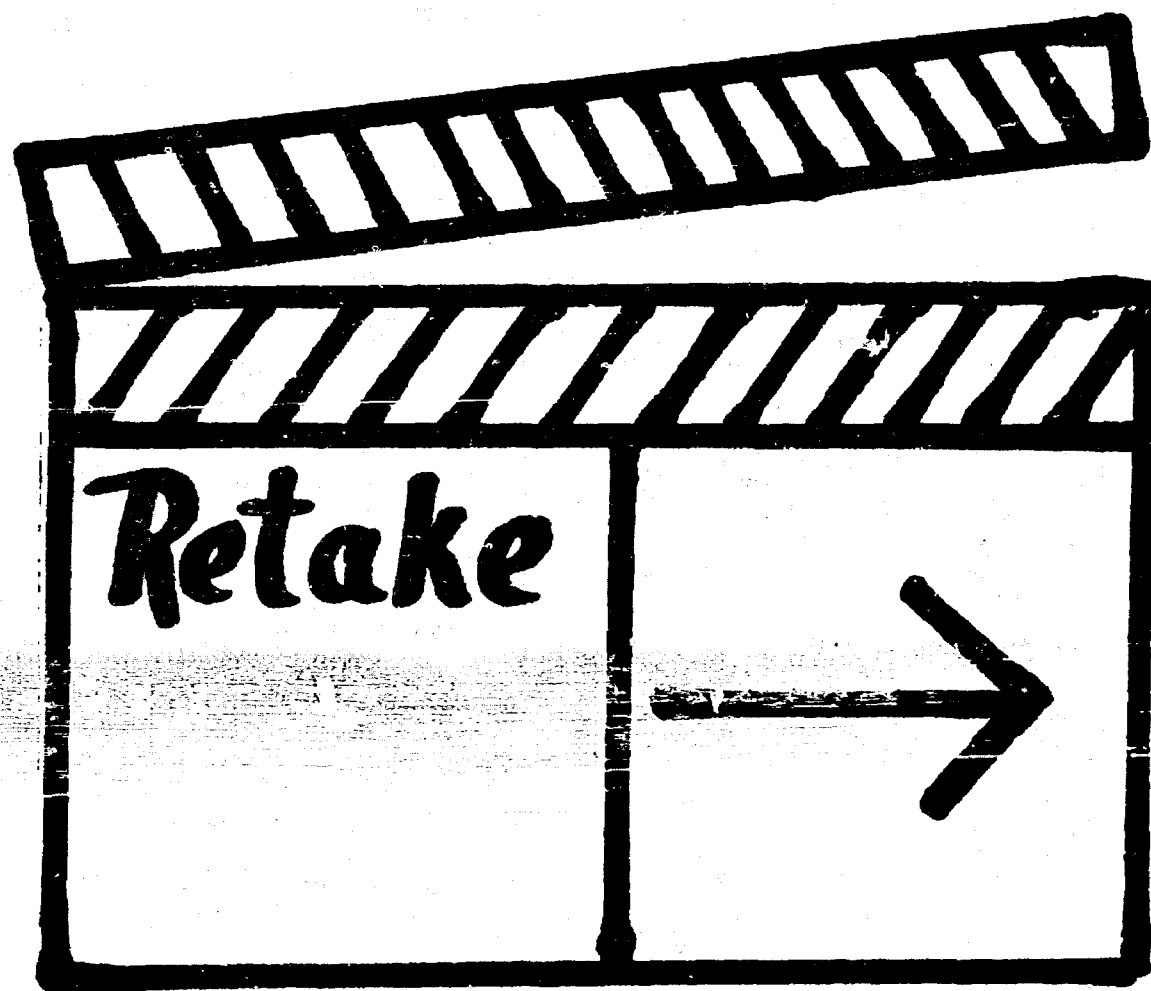
A MISMATCH IN FILMING





THE PRECEDING DOCUMENTS WERE RETURNED DUE TO:

A MALFUNCTION IN FILMING



Date

DATE

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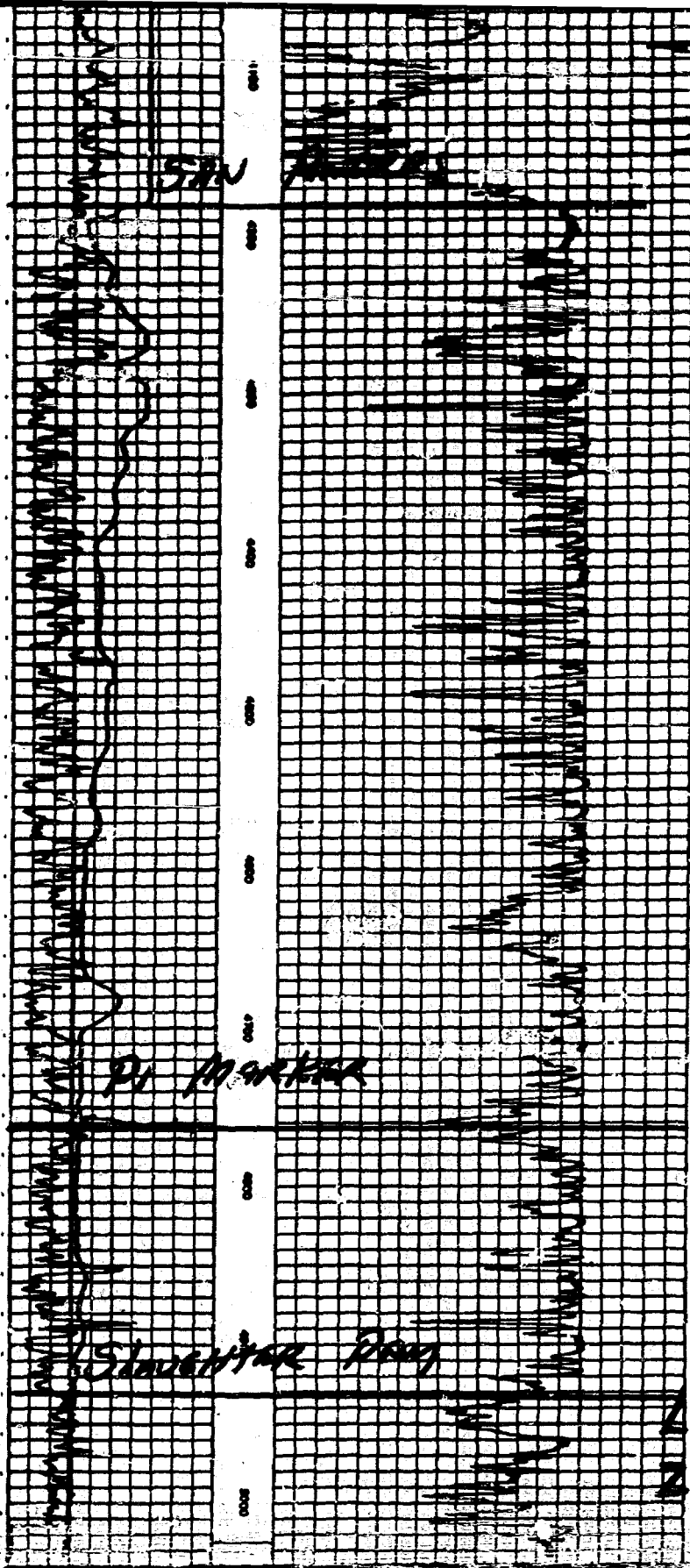
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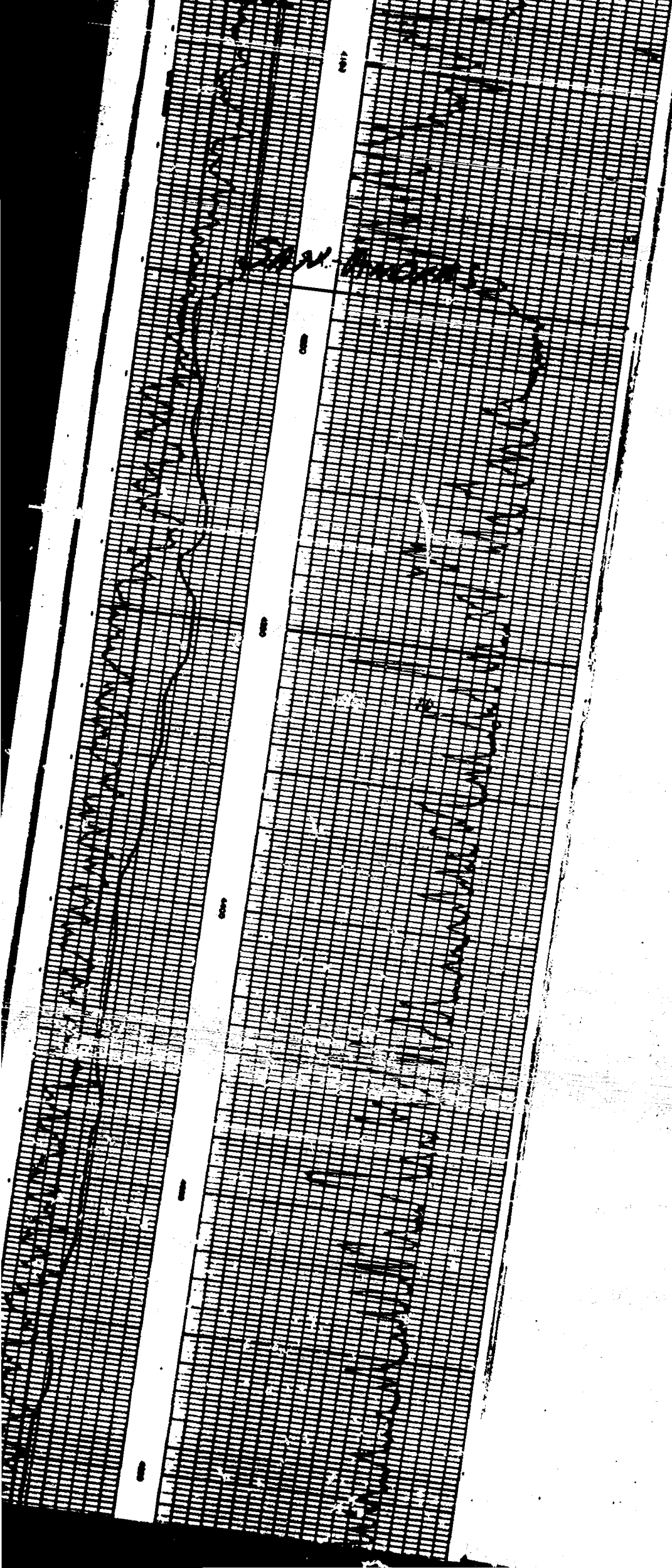


PARF 4932  
 TO 4954  
 PARF 4976  
 TO 4992

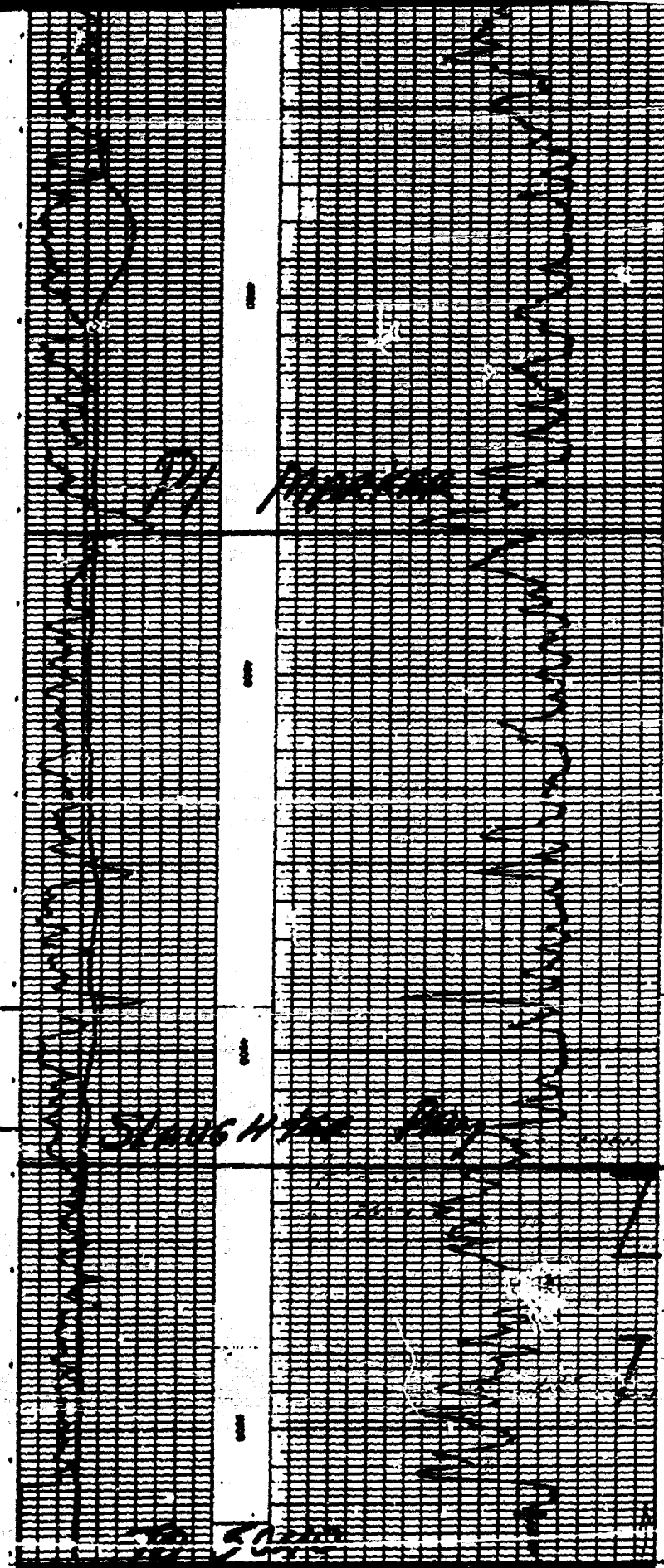
AC W/ 9000  
 IP FLOW 158 BOPD

HOLE SIZE - INCHES 8.061 100 API TO 277' CD API UNITS		LITHOLOGY POROSITY 0 20 40 60 80 100	
GAMMA RAY & CALIPER DEPTH		POROSITY %	
Company C & S OIL, INCORPORATED Well SCHOLAR NO. 1 Field WEST SAWYER County LEA State NEW MEXICO		Driller T.D. 5030' Log P.R. 5023' Log T.D. 5023' Elevations K.B. 5981' D.P. 5980' O.L. 5970'	

GAMMA RAY & CALIPER DEPTH		POROSITY %	
10 API/CD API UNITS 8.061 100 API		LITHOLOGY POROSITY 0 20 40 60 80 100	
HOLE SIZE - INCHES 8.061 100 API		LITHOLOGY POROSITY 0 20 40 60 80 100	







PERFS  
4932 TO  
4954

4976 TO  
4992

AC W/ 9000  
IP FLOW 158 BOPD

NONE SEE - DOWNS 0 API 100 API TO API API UNITS		100% 200% 300% 400% LITHOLOGY POROSITY	
GAMMA RAY & CALIPER		DEPTH	POROSITY %
Company B & P OIL, INCORPORATED Well SCHOLDE NO. 1 Field WEST SAYER County LEA State NEW MEXICO		Driller T.D. 5030' Log P.R. 5015' Log T.D. 5015' Elevations R.S. 3981' D.F. 3980' G.L. 3970'	

RETAIL SECTION



ORDERS

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:

*JAR*

*Jan*

CASE NO. 7548

Order No. R-7038

APPLICATION OF TAHOE OIL & CATTLE  
CO. 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 7, 1982,  
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this \_\_\_\_\_ day of July, 1982, 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, Tahoe Oil & Cattle Co., is the owner and operator of the Schwalbe Well No. 1, located in Unit P of Section 21, Township 9 South, Range 37 East, <sup>West Sanger - San Andres Pool,</sup> N.M., Lea County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced salt water into the San Andres formation, with injection into the perforated interval from approximately 4932 feet to 4992 feet.

(4) That the injection should be accomplished through 2 3/8 - inch plastic lined tubing installed in a packer set at approximately 4900 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 with a pressure limiting switch or other acceptable device which will limit the wellhead pressure on the injection well to no more than 1000 psi.

(6) That the Director of the Division should be authorized to administratively approve an increase in the injection pressure upon a proper showing by the operator that such higher pressure will not result in migration of the injected waters from the San Andres formation.

(7) 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.

(8) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

(9) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Tahoe Oil & Cattle Co., is hereby authorized to utilize its Schwalbe Well No. 1, located in Unit P of Section 21, Township 9 South, Range 37 East, NMPM, Lea County, New Mexico, to dispose of produced salt water into the San Andres formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 4900 feet, with injection into the perforated interval from approximately 4932 feet to 4992 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 limiting switch or other acceptable device which will limit the wellhead pressure on the injection well to no more than 1000 psi.

(3) That the Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the San Andres formation.

(4) 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.

(5) 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.

(6) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 702, 703, 704, 705, 706, 708, and 1120 of the Division Rules and Regulations.

(7) 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.

