

BASE 6871: BASS ENTERPRISES PRODUCTION  
COMPANY TO AMEND ORDER NO. R-5693, EDDY  
COUNTY, NEW MEXICO

*tion Co.*

CASE NO.

6871

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APPLICATION,  
TRANSCRIPTS,  
SMALL EXHIBITS,

ETC.

BASS ENTERPRISES PRODUCTION CO

DIVISION PRODUCTION OFFICE

P. O. BOX 2780

MIDLAND, TEXAS 79702

JULY 28, 1983

800 VAUGHN BUILDING  
(915) 684-5723

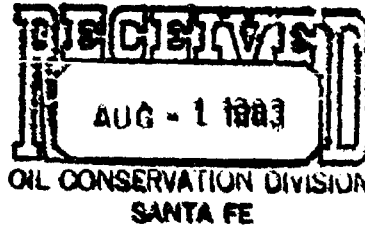
*Casa F. te  
6871*

Re: Annual Noise Log and  
Temperature Survey  
Big Eddy Unit No. 41  
Sec. 35, T21S, R28E  
Eddy County, N. M.  
Order No. R-5693A  
File: 400-WF

Oil Conservation Division  
P. O. Drawer DD  
Artesia, N. M. 88210

Attn: Mr. Les Clements

Gentlemen:



Enclosed are two copies of the annual noise log and temperature survey that was run on the subject well as required by Order No. R-5693A. The purpose of the log is to locate any fluid communication in Big Eddy Unit No. 41 behind the 5-1/2" production casing resulting from water disposal in Big Eddy Unit No. 56. The attached log shows no fluid movement behind the 5-1/2" casing.

Should you have any questions concerning this annual logging survey, please advise.

Very truly yours,

*J. E. Pullig*  
J. E. Pullig  
Division Manager

JEP:JDR/gp  
Attachments

CC: Mr. Joe D. Ramey, NMOCD ✓  
Santa Fe, N. M.

Mr. Dan Nutter  
Santa Fe, N. M.

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY



July 1, 1980

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
505/827-2434

Re:

CASE NO. 6871  
ORDER NO. R-5693-A

Mr. Conrad Coffield  
Hinkle, Cox, Katon, Coffield  
& Hensley

Attorneys at Law

P. O. Box 3580

Midland, Texas 79702

Applicant:

Bass Enterprises Production Company

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. 6871  
Order No. R-5693-A

APPLICATION OF BASS ENTERPRISES  
PRODUCTION COMPANY TO AMEND ORDER  
NO. R-5693, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on April 23, 1980,  
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 30th day of June, 1980, 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, Bass Enterprises Production Company,  
seeks to amend Order No. R-5693 to remove the restriction as to  
the time limit in which salt water may be disposed into Big Eddy  
Unit Well No. 56 located in Unit G of Section 35, Township 21  
South, Range 28 East.
- (3) That in its Order No. R-5693 the Division made the  
following findings relative to one of the applicant's producing  
wells located within one-half mile of the subject salt water  
disposal well:
  - “(8) That the applicant's Big Eddy Unit Well  
No. 41 located in Unit J of said Section 35 is  
located within one-half mile of the proposed  
injection well and is not cemented opposite the  
disposal zone.

"(9) That said Big Eddy Unit Well No. 41 could serve as an avenue of escape for injected waters from the disposal zone to other zones.

"(10) That to prevent said migration of injected waters into zones other than the disposal zone the applicant should periodically monitor the 8 5/8-inch x 5 1/2-inch casing annulus for detection of injected fluid and, upon such detection, immediately cease injection or repair said Big Eddy Unit Well No. 41.

"(11) That in no event should injection into said well continue for a period in excess of two years unless said Big Eddy Unit Well No. 41 shall have been cemented across the injection zone."

(4) That the applicant has conducted numerous tests on said Big Eddy Unit Well No. 41 none of which indicated any movement of water up-hole or down-hole nor significant pressure in the 8 5/8-inch x 5 1/2-inch casing-casing annulus.

(5) That the producing zone in said Big Eddy Unit Well No. 41 could be damaged and production irretrievably lost during workover operations required to accomplish the proposed corrective cementing opposite said disposal interval.

(6) That said irretrievable loss of production, in the absence of any demonstration of fluid movement opposite the disposal interval, is unnecessary waste and should be avoided.

(7) That the requirement for the recementing of applicant's Big Eddy Unit Well No. 41 should be indefinitely suspended pending tests demonstrating fluid movement behind the casing opposite the disposal zone or recompletion of the well in a new zone.

(8) That the applicant should continue to conduct the periodic well tests set out in said Order No. R-5693 as well as annual temperature and noise log surveys across the disposal interval in said Big Eddy Unit Well No. 41.

(9) That the applicant should notify the supervisor of the Division's district office at Artesia of the date and time of such annual tests in order that the Division, at its option, may witness such tests.

-3-

Case No. 6871  
Order No. R-5693-A

(10) That copies of the annual temperature and noise surveys should be filed with the Division not later than 30 days following completion of the tests.

**IT IS THEREFORE ORDERED:**

(1) That that provision of Order (1) of Division Order No. R-5693 entered April 11, 1978, requiring the cementing of the Bass Enterprises Production Company Big Eddy Unit Well No. 41 located in Unit J of Section 35, Township 21 South, Range 28 East, NMPM, opposite the disposal interval authorized by said Order No. R-5693, is hereby suspended indefinitely.

(2) That the operator of said Big Eddy Unit Well No. 41 shall continue to conduct the periodic well tests set out in said Order No. R-5693 and shall further conduct an annual temperature and noise log survey across the disposal interval.

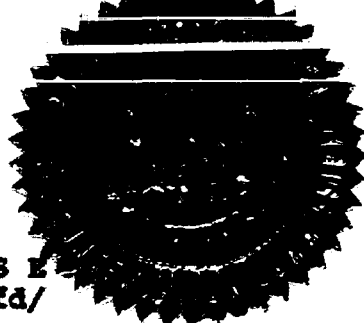
(3) That the operator shall notify the supervisor of the Division's district office at Artesia of the date and time of such annual tests in order that the Division, at its option, may witness such tests.

(4) Copies of the annual temperature and noise surveys shall be filed with the Division not later than 30 days following completion of the tests.

(5) That should any of the tests required under provisions of this Order or Order No. R-5693 demonstrate fluid movement behind the casing opposite the disposal interval or should said Big Eddy Unit Well No. 41 be worked over or recompleted the operator thereof shall proceed immediately to properly cement said casing below and across said zone.

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

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



STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

*Joe D. Ramey*  
JOE D. RAMEY  
Director

S E  
fd/

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
STATE LAND OFFICE BLDG.  
SANTA FE, NEW MEXICO  
23 April 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Bass Enterprises  
Production Company to amend Order  
No. R-5693, Eddy County, New Mexico.

CASE  
6871

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation  
Division:

Ernest L. Padilla, Esq.  
Legal Counsel to the Division  
State Land Office Bldg.  
Santa Fe, New Mexico 87501

For the Applicant:

Conrad E. Coffield, Esq.  
HINKLE LAW FIRM  
P. O. Box 3580  
Midland, Texas 79701

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I N D E X

JOHN D. RODGERS

Direct Examination by Mr. Coffield

Cross Examination by Mr. Stamets

E X H I B I T S

Applicant Exhibit One, Plat

Applicant Exhibit Two, Summary

Applicant Exhibit Three, Diagrams

Applicant Exhibit Four, Logs

Applicant Exhibit Five, Cross Section

Applicant Exhibit Six, Document

Applicant Exhibit Seven, Document

Applicant Exhibit Eight, Graph

Applicant Exhibit Nine, History

Applicant Exhibit Ten, List

1 MR. STAMETS: We'll call next Case Number  
2 6871.

3 MR. PADILLA: Application of Bass Enter-  
4 prises Production Company to amend Order Number R-5693, Eddy  
5 County, New Mexico.

6 MR. COFFIELD: Conrad Coffield with the  
7 Hinkle Law Firm of Midland, Texas, appearing on behalf of  
8 the applicant. I have one witness to be sworn at this time.

9  
10 (Witness sworn.)

11  
12 JOHN D. RODGERS  
13 being called as a witness and having been duly sworn upon  
14 his oath, testified as follows, to-wit:

15  
16 DIRECT EXAMINATION

17 BY MR. COFFIELD.

18 Q Mr. Rodgers, for the record would you  
19 please state your name, address, occupation, and employer?

20 A Yes, sir. My name is John D. Rodgers.  
21 I'm a Senior Production Engineer with Bass Enterprises Pro-  
22 duction Company, who is the agent that operates the Big Eddy  
23 Unit for Perry R. Bass, the designated operator of the Big  
24 Eddy Unit. Our address is P. O. Box 2760, Midland, Texas.

25 Q Mr. Rodgers, have you previously testified

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1 before the Division as a petroleum engineer?

2 A Yes, sir, I have.

3 Q Were your qualifications made a matter of  
4 record and were they accepted by the Division?

5 A Yes, sir, they were.

6 Q Are you familiar with Bass' application  
7 in this case?

8 A Yes, sir, I am.

9 Q And likewise are you familiar with the  
10 property involved and the well?

11 A Yes, sir.

12 MP. COFFIELD: Mr. Examiner, do you have  
13 any other questions of this witness?

14 MR. STAMETS: The witness is considered  
15 qualified.

16 Q Mr. Rodgers, would you please state what  
17 it is that Bass Enterprises Production Company seeks by this  
18 application?

19 A Bass Enterprises Production Company seeks  
20 to amend Order No. R-5693 to remove the restriction as to the  
21 time limit in which salt water may be disposed into the Big  
22 Eddy Unit Well No. 56, located in Unit G, Section 35, Town-  
23 ship 21 South, Range 28 East.

24 Q All right, Mr. Rodgers, would you please  
25 refer to what we've marked as Exhibits One, Two, and Three,

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1 A through H, and explain each of those for the Examiner?

2 A Yes, sir. Exhibit Number One is a land  
3 plat centered around Big Eddy Unit Well No. 56, the salt water  
4 disposal well.

5 The acreage that is colored in yellow is  
6 that acreage that Perry R. Bass operates as part of the Big  
7 Eddy Unit. The Big Eddy Number 56 is designated on the map  
8 by the purple arrow.

9 The 1/2 mile and 2 mile radii markers  
10 from Big Eddy Unit No. 56 are shown on the map also.

11 Bass Enterprises puts water into Big  
12 Eddy Unit No. 56. Order No. 5693 that was issued April of  
13 1978 showed concern for the Big Eddy Unit No. 41 where the  
14 casing on this well is exposed to the zone of injection.  
15 The Big Eddy Unit 41 is shown on the map by the orange arrow  
16 and is located approximately 1/4 mile from Big Eddy Unit No.  
17 56.

18 Some other items shown on this map are  
19 wells producing from the Delaware formation in green; the  
20 Atoka formation is shown in blue, or by the blue dot; and the  
21 Morrow formation is shown by the red dots.

22 The well designated by the green dot and  
23 red circle, Big Eddy Unit No. 62, is the new producing well  
24 that has been drilled since the April, 1978, Order R-5693  
25 was given to Bass.



One other well has been drilled, which is just west of Big Eddy Unit 62. This is Big Eddy Unit No. 63. The well has been plugged and abandoned.

Exhibit Number Two is a tabular summary of the seven wells, excluding Big Eddy Unit No. 56, that are in the Section 35. Review of this exhibit shows that Big Eddy Unit No. 41 is the only well to have casing exposed to the zone of injection of Big Eddy Unit No. 56.

The wells that have been plugged and abandoned have this zone of injection between cement plugs.

MR. STAMETS: To refresh my memory, what is the injection interval for the 56?

A The injection interval is above the Delaware Field. It is above the Delaware Field at approximately 3300 to 3400.

MR. STAMETS: The Delaware zone but not the --

A It's a Delaware zone, yes, sir.

Exhibits Nos. Three, A through H, are schematic diagrams of Big Eddy Unit No. 56 and the seven other wells that are in Section 35, and once again, review of these exhibits shows that Big Eddy Unit No. 41 is the only producing well that has casing exposed to the correlative zone of injection of Big Eddy 56.

Q Refer to what we've marked now as Exhibits

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1 Four, Four-A, and Five, and discuss those exhibits, please,  
2 Mr. Rodgers.

3 A Exhibit Number Four is a borehole compen-  
4 sated sonic log and Exhibit Number Four-A is the dual laterolog  
5 micro SFL.

6 The zone marked at approximately 3600  
7 feet on the log is the Delaware Field that is productive in  
8 this area.

9 The zone shown in blue on the log is the  
10 zone of injection of Big Eddy Unit Well No. 56. There is a  
11 cast iron bridge plug set between these two zones and it is  
12 capped with approximately 10 feet of hydromite.

13 Exhibit Number Five is a structural  
14 cross section of this Delaware Field and once again shown  
15 in blue on this structural cross section is the zone of in-  
16 jection of Big Eddy 56, and shown in green is the Delaware  
17 productive interval.

18 Q Do you have any other comments on that  
19 exhibit?

20 A No, sir.

21 Q Let's go on, then, to what we've marked  
22 as Exhibits Six, Seven, and Eight, and please discuss these  
23 three exhibits.

24 A Exhibit Number Six details the current  
25 sources of fluid that Bass Enterprises injects into Big Eddy

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1 Unit Well No. 56. These sources of fluid are shown on the  
2 exhibit as coming from Big Eddy Unit wells and this exhibit  
3 shows their well numbers.

4 Also shown on the exhibit are the future  
5 sources of produced salt water that Bass will inject into  
6 Big Eddy Unit 56 when that time comes. These include all  
7 future Big Eddy Unit wells with a possibility of a Yates  
8 Petroleum Well located in Section 27 to the northwest of  
9 Big Eddy Unit 56 that is located in Section 35.

10 Exhibit Number Seven is the results of  
11 a water sample obtained on the disposal water that Bass in-  
12 jects into the subject well. These waters are from the Mor-  
13 row, the Atoka, and the Delaware formations. The results  
14 show that these waters do have a scaling tendency. This  
15 leads us into Exhibit Number Eight, which is a graph of pres-  
16 sure and monthly volumes of injection of water versus time  
17 for Big Eddy Unit No. 56. Both curves are on a logarithmic  
18 scale. The monthly injection rate is shown in blue and the  
19 pressure is shown in red.

20 Also shown on this graph is the limiting  
21 pressure of 662 psig, as defined in the order No. R-5693.  
22 The pressures shown on this curve are the monthly average  
23 pressure that BEPCO has been reporting to the Oil Conservation  
24 Division monthly.

25 This curve also shows the date that

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1 Bass began putting water into the Big Eddy Unit No. 56 and  
2 also the stimulations that have been performed on this well  
3 to keep our pressures below this limiting pressure.

4 The pressure of 480 psig, shown March,  
5 1980, is the current pressure after the last stimulation job  
6 that Bass has performed on the well.

7 It might be noted here that the cumulative  
8 injection into Big Eddy Unit No. 56 has been 67,000 barrels  
9 of salt water, approximately, during the 22 months that the  
10 well has been having water injected into it.

11 Q Refer to what we've marked now as Exhibit  
12 Nine and describe this exhibit, if you would, for the Examiner.

13 A Exhibit Number Nine is the production  
14 history of Big Eddy Unit No. 41. This graph is of oil, water,  
15 and gas production by month since the well began production  
16 in January of 1976.

17 The scales for the oil and water are from  
18 10 barrels or fluid a month to 10,000 barrels of fluid pro-  
19 duction per month. Oil is shown in green and water, in blue.

20 The scale for the gas is shown from 100  
21 Mcf a month and goes up to 100,000 Mcf per month, and this  
22 is defined by the red curve.

23 January of 1966 Big Eddy Unit No. 41 be-  
24 gan producing from the Morrow formation. The well approached  
25 the limit by March of 1977. Bass attempted stimulation to

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1 regain production but was not successful.

2 In December of 1977 Bass recompleted the  
3 well to the Atoka, which is the current production interval  
4 of the well, and currently the Atoka is producing approximately  
5 210,000 Mcf per month.

6 In March of 1980 Bass installed compres-  
7 sion on Big Eddy Unit No. 41 and we have noticed that com-  
8 pression on this well has kept the production up. As you  
9 can see, we had a rapid decline of production.

10 Q Mr. Rodgers, what adverse effect, if any,  
11 have you noticed in connection with Well No. 41 relative to  
12 the injection procedures that you've been following here?

13 A There have been no adverse effects on  
14 Big Eddy Unit No. 41.

15 Q All right, Mr. Rodgers, how long would  
16 you propose that the Division extend Bass' authority to con-  
17 tinue the disposal of salt water into Big Eddy 56?

18 A Bass Enterprises asks that the order be  
19 extended until such evidence of damage has occurred in Big  
20 Eddy Unit No. 41.

21 Q With that in mind, then, would you pro-  
22 pose that Bass continue to routinely monitor Well No. 41 and  
23 report to the -- to the Division?

24 A Yes, sir, we would.

25 Q As you're well aware, Mr. Rodgers, one

1 of the provisos in Order No. R-5693 specifies that the  
2 authority granted by that order to inject in the Big Eddy  
3 Well 56 is to expire ipso facto two years from the date of  
4 first injection unless the operator properly cements Big Eddy  
5 No. 41 across the injection zone. If Bass' application in  
6 this case is denied, what will be the result?

7 A There are two results. Bass does not feel  
8 that we could jeopardize the Atoka interval that is producing  
9 approximately 750 Mcf per day and which we have installed  
10 compression on to cement this zone of injection in Big Eddy  
11 Unit 41. Also, the operating expenses would go up signifi-  
12 cantly if Bass to find a disposal well nearby and truck water  
13 to that well, and this could result -- or this will result  
14 in a higher limit for the producing wells and we could leave  
15 oil in the ground.

16 Q So it could result, then, in inability  
17 to produce hydrocarbons?

18 A Yes, sir, it could.

19 Q Were these Exhibits One through Nine  
20 prepared by you or under your supervision?

21 A Yes, sir, they were.

22 Q In your opinion will the approval of  
23 Bass' application in this case be in the interest of conser-  
24 vation and the protection of correlative rights and prevention  
25 of waste?

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1 A Yes, sir.

2 MR. COFFIELD: Mr. Examiner, I move the  
3 admission of Exhibits One through Nine.

4 MR. STAMETS: These exhibits will be ad-  
5 mitted.

6 MR. COFFIELD: And I have no further  
7 questions of Mr. Rodgers on direct examination.

8  
9 CROSS EXAMINATION

10 BY MR. STAMETS:

11 Q Has Bass monitored the annulus in this  
12 Well No. 41?

13 A Yes, sir. Bass monitors annulus of 41  
14 weekly and reports these pressures to us, which is where we  
15 get our pressures to report to the Oil Conservation Division.

16 Q The annulus I'm referring to is the  
17 casing/casing annulus between the 11-3/4 and the 5-1/2 casing

18 A Yes, sir.

19 Q What is the result of that monitoring?

20 A The pressures in Big Eddy Unit No. 41  
21 have -- on the casing annulus have remained low, and as wit-  
22 nessed by the State authorities quarterly, they have found  
23 this also.

24 Q You didn't supply us with a tabulation  
25 of those pressures here today. Is there any reason for that?

1 A We can supply that pressure.

2 Q I certainly think that should be done.

3 How much longer do you anticipate the Atoka zone is going to  
4 keep producing in the Big Eddy Well No. 41?

5 A The decline rate that was witnessed with-  
6 out compression was a steep decline.

7 Now with compression, we have just in-  
8 stalled compression, and we book our Atoka reserves for this  
9 well based upon approximately 2 billion cubic feet of gas.  
10 I do not know the current recovery at this date.

11 Q Just a rough calculation would seem to  
12 indicate that perhaps maybe half of that has been produced  
13 by this time. Would that indicate -- if that were a correct  
14 figure, would that indicate to you that perhaps you had two  
15 more years of life left on this well?

16 A With compression we have decreased the  
17 decline rate, so I would estimate we'd have longer than two  
18 years production.

19 Q Okay. Would it be possible to work Well  
20 No. 41 over without getting fluid on the Atoka perforations?

21 A May I find out that answer? I'm not  
22 sure.

23 MR. STAMETS: Certainly.

24 A Mr. Examiner, we have a retrievable  
25 packer in the hole, so we could not set a plug in this packer,

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1 so fluid -- we would have to get fluid on the formation to  
2 work this well over.

3 Q The well was producing from the Atoka  
4 before the original hearing on Well NO. 56?

5 A Yes, sir, it was.

6 Also at this time, Mr. Examiner, we do  
7 have the casing annulus pressures of Big Eddy Unit 41, if  
8 we can supply them.

9 Q You have those here at this time?

10 A Yes, sir, we do.

11 Q I'd like to take a look at those.

12 MR. COFFIELD: Would you like them offered  
13 as an exhibit?

14 MR. STAMETS: Probably. Let me scan them  
15 first.

16 This summary indicates, then, that since  
17 July of 1978 we've had zero pressure on the annulus, is that  
18 correct?

19 A Yes, sir, that is correct. We monitor  
20 the pressure weekly and just occasionally the pressure will  
21 build up, at which time the pumper will open the valve and  
22 bleed just a slight amount of gas.

23 Q What's in the annular space on this well?  
24 Is it loaded with mud?

25 A Should be drilling fluid mud, yes, sir.

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1 From where the cement did not displace.

2 Q Would Bass be agreeable to continuance of  
3 monitoring and a possible requirement for working the well  
4 over in case significant pressure buildup occurs in the an-  
5 nulus of Well No. 41?

6 A Yes, sir, we would be.

7 MR. STAMETS: Are there other questions  
8 of this witness? He may be excused.

9 Anything further in this case?

10 MR. COFFIELD: No, sir.

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

13 MR. COFFIELD: Mr. Examiner, I would  
14 offer Exhibit Ten into evidence.

15 MR. STAMETS: Exhibit Ten will be ad-  
16 mitted.

17 And if there is nothing further, the  
18 case will be taken under advisement. And in this case the  
19 Examiner will be referring to the transcript in the original  
20 hearing and such evidence as may be obtained from Division  
21 files on the wells involved and the injection involved.

22 The case will be taken under advisement.

23

24

(Hearing concluded.)

25

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REPORTER'S CERTIFICATE

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 C.S.R.

SALLY W. BOYD, C.S.R.

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I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 6871.  
heard by me on 4-23-1980.  
Richard L. [Signature] Examiner  
Oil Conservation Division

TABULAR SUMMARY  
WELLS WITHIN ONE HALF MILE RADIUS OF BIG EDDY UNIT NO. 56

BIG EDDY UNIT NO. 41

Lease No. 03304-01

Location: 1980' FSL & 1980' FEL of  
Unit Letter J, Section 35, T-21-S, R-28-E  
Eddy County, New Mexico

Total Depth: 12,660'

Producing Interval: 11,419-11,434' (Atoka)

Casing: 11 3/4" set @ 260' cmt'd with 250' sx, circulated to surface.  
8 5/8" set @ 2794.80' cmt'd with 2200 sx, circulated to surface.  
5 1/2" set @ 12,660.21' cmt'd with 600 sx, top of cmt 10,745' by  
cement bond log.

BIG EDDY UNIT NO. 47

Lease No. 03304-01

Location: 1980' FNL & 1980' FWL of  
Unit Letter F, Section 35, T-21-S, R-28-E  
Eddy County, New Mexico

Total Depth: 3791'

Producing Interval: 3548-3557' (Delaware)

Casing: 8 5/8" set @ 305.03' cmt'd with 200 sx, circulated to surface.  
5 1/2" set @ 3794.00' cmt'd with 616 sx, calculated top of  
cement 1542'.

BIG EDDY UNIT NO. 49

Lease No. 03304-01

Location: 1650' FSL & 330' FWL of  
Unit Letter L, Section 35, T-21-S, R-28-E  
Eddy County, New Mexico

Total Depth: 3808'

Producing Interval: 3655-3677' (Delaware)

Casing: 8 5/8" set @ 324' cmt'd with 350 sx, circulated to surface.  
5 1/2" set @ 3808' cmt'd with 350 sx, calculated top of cement 2376'.

BIG EDDY UNIT NO. 58

Lease No. 03304-01

Location: 2310' FSL & 1650' FWL of  
Unit Letter K, Section 35, T-21-S, R-28-E  
Eddy County, New Mexico

Total Depth: 3820'

Producing Interval: 3544-3553' (Delaware)

Casing: 8 5/8" set @ 400' cmt'd with 300 sx, circulated to surface.  
5 1/2" set @ 3800' cmt'd with 450 sx, calculated top of cement 1760'.

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

EXHIBIT NO. 2

CASE NO. 6871

Submitted by Boase

Hearing Date 4/23/80

BIG EDDY UNIT NO. 59

P & A 4/22/78

Lease No. 03304-01

Location: 990' FNL & 1650' FWL of  
Unit Letter C, Section 35, T-21-S, R-28-E  
Eddy County, New Mexico

Total Depth: 3790'

Producing Interval: (Delaware)

Casing: 8 5/8" set @ 410' cmt'd with 300 sx Class "C" cement.

Cement Plugs: 3600'-3450' 140 sx; 2700'-2600' 55 sx;  
1600'-1500' 55 sx; 450'-350' 70 sx; 10 sx at surface  
all Class "H" cement.

BIG EDDY UNIT NO. 62

Lease No. 11890-01

Location: 330' FSL & 2310' FWL of  
Unit Letter N, Section 35, T-21-S, R-28-E  
Eddy County, New Mexico

Total Depth: 3800' PBTD @ 3750'

Producing Interval: 3532'-3542' (Delaware)

Casing: 8 5/8" set @ 395' cmt'd with 300 sx Class "C" cement circulated to surface.  
5 1/2" set @ 3800' cmt'd w/325 sx, calculated top of cement @ 2000'.

BIG EDDY UNIT NO. 63

P & A 1/27/79

Lease No. 11890-00

Location: 330' FSL & 990' FWL of  
Unit Letter M, Section 35, T-21-S, R-28-E  
Eddy County, New Mexico

Total Depth: 3745'

Producing Interval: (Indian Flats)

Casing: 8 5/8" set @ 420' cmt'd with 300 sx Class "C" + 2% CaCl<sub>2</sub>.

Cement Plugs: 3650'-3460' 50 sx; 2700'-2570' 35 sx;  
470'-370' 35 sx; 20' surface plug. All Class "C" cement.

SALT WATER DISPOSAL WELL  
BIG EDDY UNIT NO. 56  
INDIAN FLATS FIELD  
EDDY COUNTY, NEW MEXICO

SDS 4/22/80

Located: 1980 FNL & 2310 FEL of  
Sec. 35, T-21-S, R-28-

ELEVATION: 3186 GL  
3197 KB

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

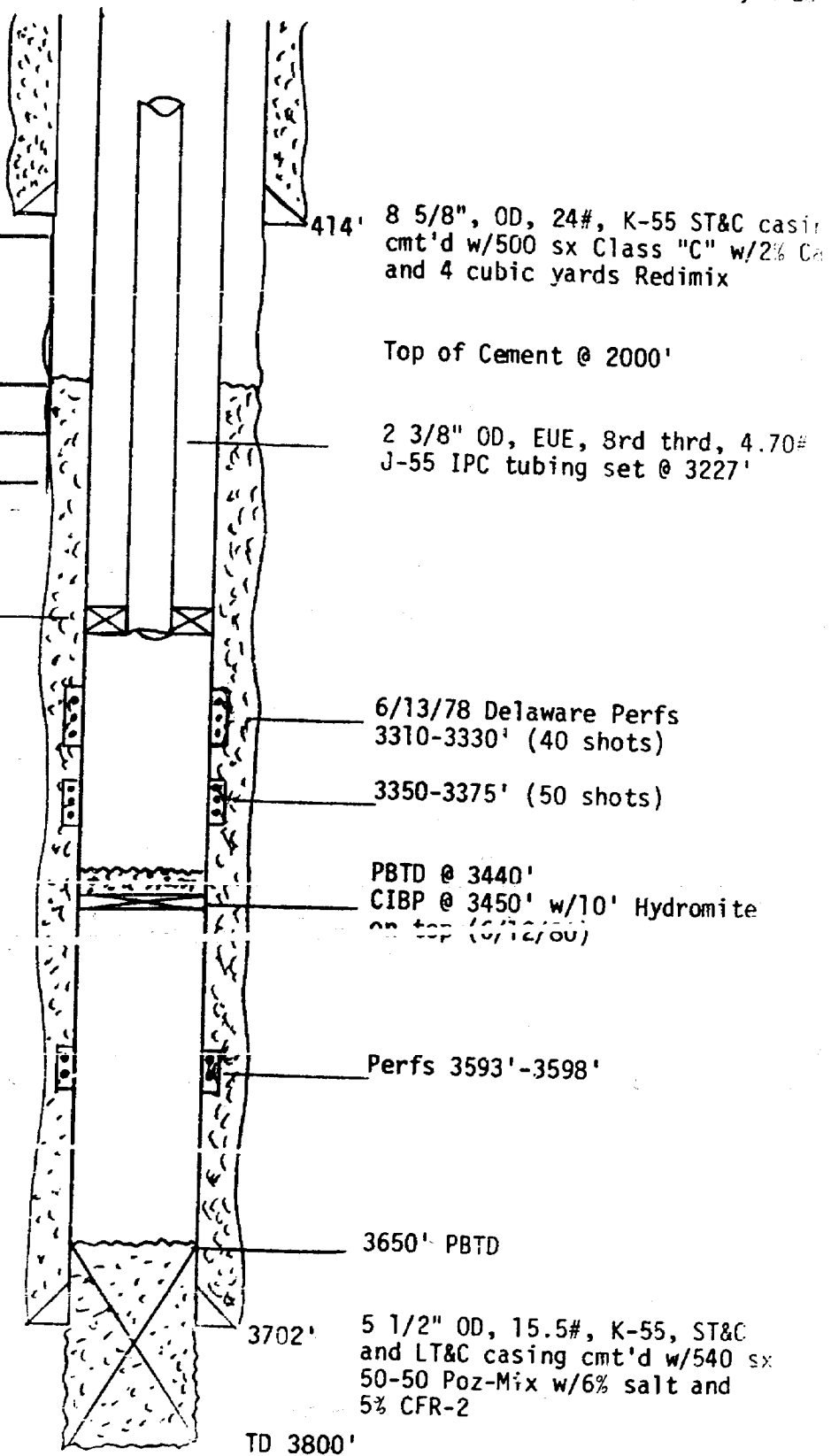
EXHIBIT NO. 3A

CASE NO. 6871

Submitted by Bass

Hearing Date 4/23/80

45A Baker Model AD-1  
Tension Packer set @ 3227'



SDS 4/22/80

WELL STATUS  
BIG EDDY UNIT NO. 41  
EDDY COUNTY, NEW MEXICO

35-71-78

Elev: 3198' KB  
3180' GL

Spud: 8-18-74  
Comp: 11-8-74

LOCATED: 1980' FSL & FEL  
Sec. 35, T21S, R28E

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION  
EXHIBIT NO. 38

CASE NO. 6871

Submitted by Boose

Hearing Date 4/23/80

Cmt top @ 10,720'

Atoka  
Perfs (11,419'-11,434')

20' Cement

Morrow  
Perfs (12,278'-12,277')

Morrow  
(zone 6)

{ 12,414'-418'  
12,433'-437'  
12,454'-458'  
12,461'-467'  
12,472'-476'

11-3/4" 8rd, ST&C, 42.0#/ft, H-40  
@ 260' Cmt'd to surface w/250 sx.

8 5/8" at 2794' circ

2-7/8" OD EUE, N-80, 6.5#/ft Csg

11,322' Baker Lok-Set Packer

PBTD @ 12,230'

12,250' Model P-1 Baker CIBP

Baker DR Latching-Type Packer Plug

12,380' Baker "F" Packer

3.00" Bore

PBTD @ 12,618'

5-1/2", 8rd, LT&C, 17.0#/ft, K-55 & i.  
@ 12,660'. Cmt'd w/250 sx Lite, 350  
Class "H"

TD = 12,660'

WELL STATUS  
BIG EDDY UNIT NO. 47  
INDIAN FLATS DELAWARE  
EDDY COUNTY, NEW MEXICO

SDS 4/22/80

Elev: 3178' GL  
3190' KB

Location: 1980' FNL & FWL  
Sec. 35, T21S,  
R28E

Spud 3-8-79  
Comp. 2-3-76

305' - 8-5/8", 24#/ft, K-55, ST&C  
Cmt'd w/200 sx Class "C"

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

EXHIBIT NO. 3C

CASE NO. 6871

Submitted by Bose

Hearing Date 4/23/80

Calculated Top of Cement @ 2200'

2-3/8" O.D., 8rd, 4.7#/ft,  
J-55 Tubing

3-31-76 Delaware Perfs

3548'-57' (18 shots) Frac'd w/9000  
gal oil & 11,500# 20-40 sand

PSN @ 3573'

BP&C 3600'

Sand Fill @ 37248'

PBTD @ 3751'

3794 - 5-1/2", 15.50#, K-55, LT&C  
Csg, Cmt'd w/616 sx Class "C"

TD 3794'



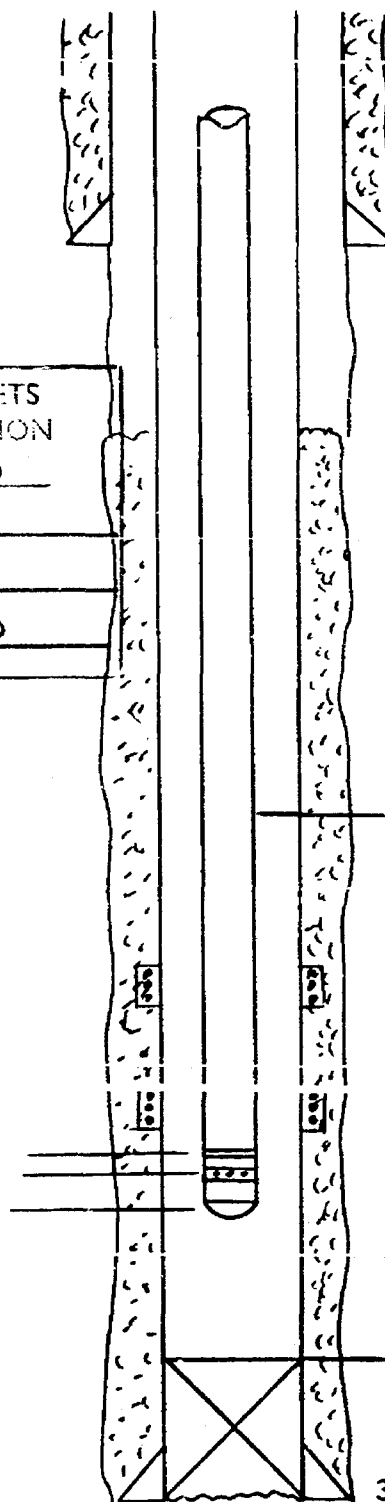
SDS 4/22/80

WELL STATUS  
BIG EDDY UNIT NO. 49  
INDIAN FLATS (DELAWARE) FIELD  
EDDY COUNTY, NEW MEXICO

ELEV: KB 3174'  
GL 3163'

SPUD: 7-25-76  
COMP: 8-18-76

LOCATION: 330' FWL, 1650'  
FSL, SEC. 35,  
T-21-S, R-28-E



324' 8 5/8", 24#, K-55, ST&C CSG,  
CMT'D W/250 SXS CLASS "C"

2550' CALC TOP OF CEMENT

2 3/8" OD 4.7#/FT, J-55  
TBG.

10-19-77 DELAWARE PERFS @  
3529'-38' (22 SHOTS) FRC'D  
W/10,000 GAL OIL & 10,500 LBS  
10-20 SAND.

8-17-76 DELAWARE PERFS @  
3665'-77' (45 SHOTS) FRC'D  
W/10,000 GAL OIL & 15,500 LBS  
20-40 SAND.

PERF @ 3736'

5 1/2" 15.50#, K-55, LT&C CSG.  
CMT'D W/350 SX CLASS "C"

3808'

TD 3808'

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

EXHIBIT NO. 3D

CASE NO. 6871

Submitted by Base

Hearing Date 4/23/80

SN @ 3684'  
PERF SUB @ 3687'  
BP&C @ 3696'

WELL STATUS  
BIG EDDY UNIT NO. 58  
EDDY COUNTY, NEW MEXICO

4-22-80 SDS

ELEV: KB 3184.5  
GL 3171.5

SPUD: 1-19-78  
COMP: 2-18-78

LOCATION: 1650' FWL, 2310'  
FSL, SEC. 35,  
T-21-S, R-28-E

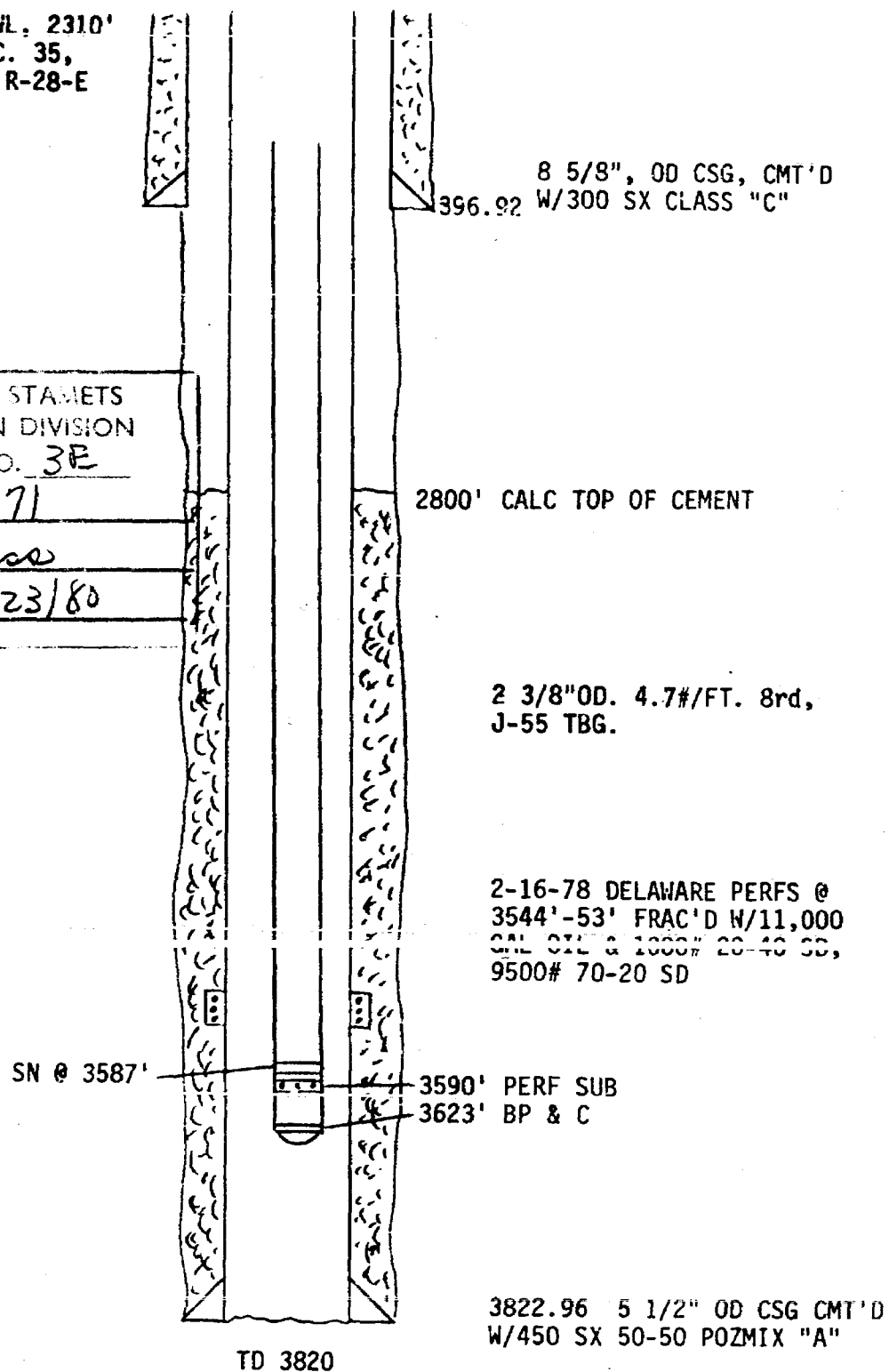
BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

EXHIBIT NO. 3E

CASE NO. 6871

Submitted by Bace

Hearing Date 4/23/80



SDS 4/22/80

BIG EDDY UNIT NO. 59  
INDIAN FLATS FIELD  
EDDY COUNTY, NEW MEXICO

ELEV: RKB 3197'  
GL 3183'

LOCATION: 1650' FWL, 990'  
FNL, SEC. 35,  
T-21-S, R-28-E

SPUD: 4-4-78  
COMP: —  
P & A: 4-22-78

10 SX CLASS "H" @ TOP

12 1/4" HOLE

410' - 8 5/8", 24#/H, K-55,  
ST&C CSG, CMT'D W/300  
SXS CLASS "C"

T/SALT 400'  
350'-450' 70 SX CLASS "C"

BEFORE EXAMINER SIGNATURES  
OIL CONSERVATION DIVISION  
EXHIBIT NO. 3F

CASE NO. 6871

Submitted by *base*

Hearing Date 4/23/80

T/DELAWARE 2265

55 SX CLASS "H" 1500'-1600'

7 7/8" HOLE

55 SX CLASS "H" 2600'-2700'

T/LAMAR 2710'  
T/RAMSEY 2780'

140 SX CLASS "H" 3450'-3600'

3790' TD

SDS 4/22/80

WELL STATUS  
BIG EDDY UNIT NO. 62  
INDIAN FLATS DELAWARE  
EDDY COUNTY, NEW MEXICO

Elev: 3169' GL  
3178' KB

Spud: 9-1-78  
Comp: 10-6-78

Location: 2310' FWL & 330'  
FSL, Sec. 35, T21S, R28E

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

EXHIBIT NO. 3 G

CASE NO. 6871

Submitted by Bass

Hearing Date 4/23/80

395' 8-5/8" 24# K-55 w/300 sx  
Class "C"

Calc top of cement @ 2000'

2-3/8" OD, EUE 8rd Thrd 4.7# J-55 Tubing

10-1-78 Delaware

Perforated w/1 JSPF @ 3532',  
3534', 3536', 3538', 3540',  
3542' (6 shots). Acidize with  
500 gals 15% NE HCl

3521' SN

3553' Tubing Set

3750' PBTB

3800' 5-1/2" 14# K-55 w/325 sx  
50-50 Pozmix & 425 sx Class "C"

TD 3800'

WELL STATUS  
BIG EDDY UNIT NO. 63  
EDDY COUNTY, NEW MEXICO

SDS 4/22/80

Elev. 3156.4' GL  
3168.9' RKB

Spud: 1-15-79

Located: 990' FML, 330' FSL,  
Sec. 35, T21S, R28E

P & A 1-27-79

20' plug @ Surface w/Class "C"

370'-470' 35 sxs Class "C"

420' 8-5/8" 24#/ft K-55 ST&C Csg  
Cmtd w/300 sxs Class "C"

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

EXHIBIT NO. 3H

CASE NO. 6871

Submitted by Ross

Hearing Date 4/23/80

2570' - 2700' 35 sxs Class "C"

3460' - 3650' 50 sxs Class "C"

3745' TD

BIG EDDY UNIT NO. 56  
EDDY CO., NEW MEXICO

NAME AND LOCATION OF INJECTION WELL:

Big Eddy Unit No. 56  
1980' FNL & 2310' FEL of  
Section 35, T-21S, R-28E  
Unit Letter - G  
Eddy County, New Mexico

NAME AND DEPTH OF ZONE:

Delaware Sand  
Injection Interval: 3310'-3375'

KIND OF FLUID INJECTED:

Produced saltwater  
Volume Injected: Approximately 3000 BWIPM

CURRENT SOURCE OF FLUID:

BEU NO. 8  
BEU NO. 10  
BEU NO. 38  
BEU NO. 39  
BEU NO. 41  
BEU NO. 44  
BEU NO. 47  
BEU NO. 49  
BEU NO. 53  
BEU NO. 54  
BEU NO. 58  
BEU NO. 62  
BEU NO. 65  
BEU NO. 66  
BEU NO. 68  
BEU NO. 72  
BEU NO. 73  
BEU NO. 76

FUTURE SOURCES OF FLUID:

All Future Big Eddy Unit Wells  
Yates Petroleum Well (Federal "GN" No. 1)

BEFORE EXAMINER STARTS  
OIL CONSERVATION DIVISION

EXHIBIT NO. 6

CASE NO. 6871

Submitted by Boss

Hearing Date 4/23/80

P. O. BOX 1468  
MONAHAN, TEXAS 79756  
PHONE 943-3234 OR 563-1640

Martin Water Laboratories, Inc

709 W. INDIANA  
MIDLAND, TEXAS 79701  
PHONE 683-4821

RESULT OF WATER ANALYSES

TO: Mr. John Rodgers LABORATORY NO. 480148  
P.O. Box 2760, Midland, Texas SAMPLE RECEIVED 4-21-80  
RESULTS REPORTED 4-21-80

COMPANY Bass Enterprises & Production LEASE Big Eddy Unit #56 SWD  
FIELD OR POOL Company Big Eddy  
SECTION      BLOCK      SURVEY      COUNTY Eddy STATE New Mexico

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Composite disposal water (Morrow, Atoka & Delaware) 4-19-80  
NO. 2       
NO. 3       
NO. 4     

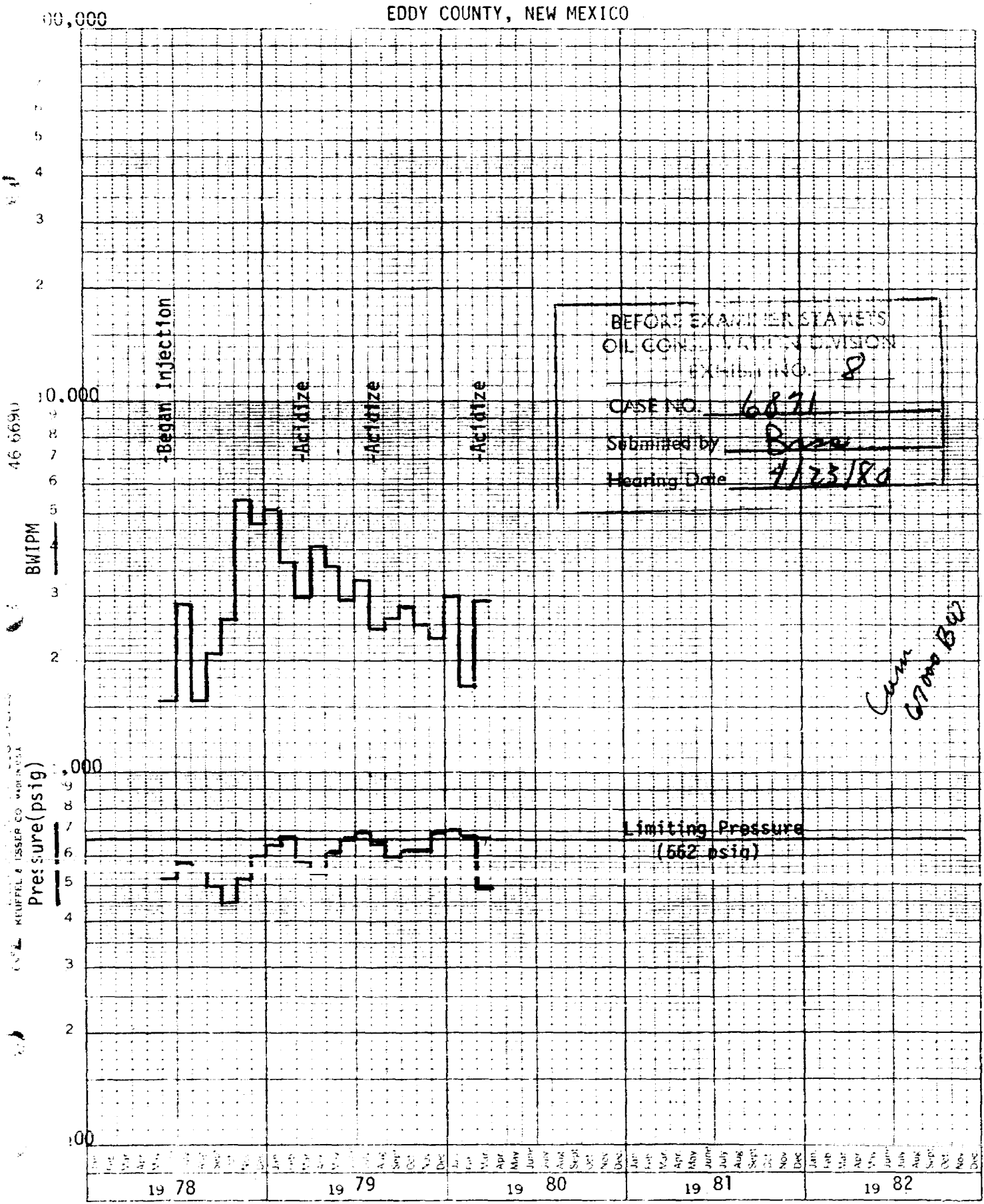
REMARKS:

PHYSICAL & CHEMICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0942			
pH When Sampled				
pH When Received	7.3			
Bicarbonate as HCO <sub>3</sub>	129			
Supersaturation as CaCO <sub>3</sub>	14			
Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO <sub>3</sub>				
Calcium as Ca				
Magnesium as Mg	2.07			
Sodium and/or Potassium	50.708	BEFORE EXAMINER'S METS OIL COMPANY DIVISION LABORATORY NO. 7		
Sulfate as SO <sub>4</sub>	2.597			
Chloride as Cl	92.325			
Iron as Fe	0.90	CASE NO.	6871	
Barium as Ba		Submitted by	<u>Bass</u>	
Turbidity, Electric		Receiving Date	<u>4/23/80</u>	
Color as Pt				
Total Solids, Calculated	152.517			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	1.2			
Resistivity, ohms/m at 77° F.	0.069			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

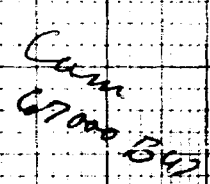
Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

BIG EDDY UNIT NO. 56  
 INDIAN FLATS FIELD  
 EDDY COUNTY, NEW MEXICO





33,000



GAS -- 100,000  
OIL -- 10,000  
WTR -- 8

INDIAN FLATS (ATOKA)  
BIG EDDY NO. 41  
(Morrow 1976 & 77)

47 6843

GAS--10,000  
OIL--1,000  
WTR -- 9

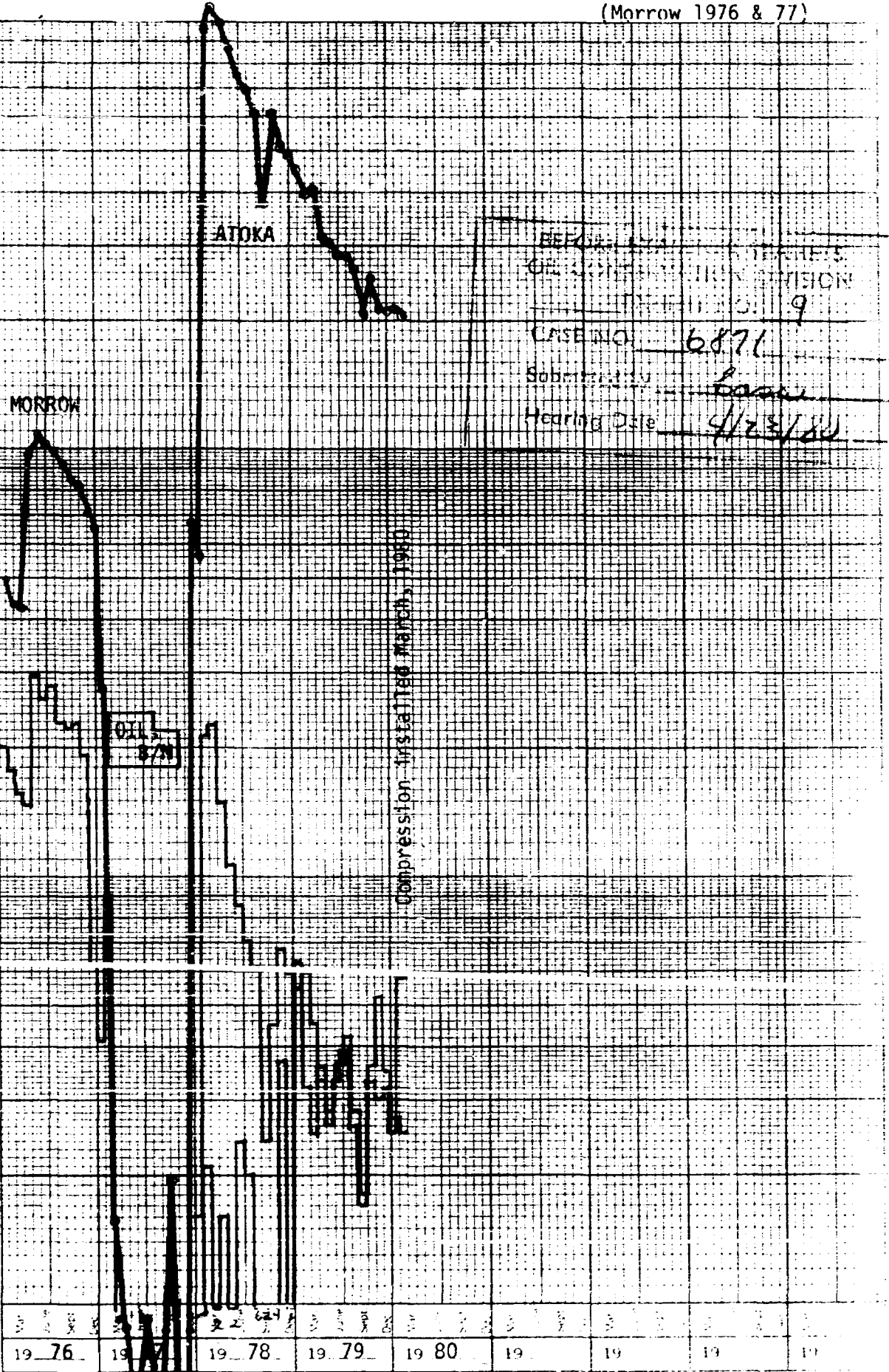
GAS, MCF

WTR, B/M

GAS -- 1,000  
OIL -- 100  
WTR -- 9

20 YEARS BY MONTHS X 3 LOG CYCLES  
K-E NEUFELT ESSER CO. MADE IN U.S.A.

GAS, MCF - 100  
oil - 10  
wtr



BEFORE THE  
OIL & GAS COMMISSION  
CASE NO. 6871  
Submitted by Essex  
Hearing Date 4/23/80

LAW OFFICES

HINKLE, COX, EATON, COFFIELD & HENSLEY

1000 FIRST NATIONAL BANK TOWER

POST OFFICE BOX 3580

MIDLAND, TEXAS 79702

(915) 683-4691

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PAUL M. BOHANNON

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J. DOUGLAS FOSTER  
K. DOUGLAS PERRIN  
C. RAY ALLEN  
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AMARILLO, TEXAS OFFICE  
1701 AMERICAN NATIONAL BANK BUILDING  
(806) 372-6669

ONLY ATTYS. EATON, COFFIELD, MARTIN, BOZARTH,  
BOHANNON, FINNEY, FOSTER, ALLEN, ALLEN,  
BURFORD, BREWER & STONE  
LICENSED IN TEXAS

May 30, 1980

Mr. Richard Stamets  
Oil Conservation Division  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: Bass Enterprises Production  
Company - Oil Conservation  
Division Case No. 6871  
Salt Water Disposal Matters

Dear Dick:

Pursuant to recent requests by you relative to matters to be considered in connection with the above referenced case, Bass Enterprises Production Company has had a noise log run on May 22, 1980 on the Big Eddy Unit Well No. 41 in Eddy County, New Mexico. As you will recall, your request for this test was directed toward the question of establishing whether Bass had communication between the Big Eddy Unit Well No. 41 and the offset salt water disposal well, being Big Eddy Unit Well No. 56.

With this letter we submit one copy of the subject noise log and temperature log run on the Big Eddy Unit Well No. 41 and with a copy of this letter, we also submit a copy of these same items to Mr. Mike Williams with the Division's Artesia office. We respectfully request that these items be placed in evidence in the above referenced case and be duly considered by you in your disposition of this matter. Also, for the file and for information is an analysis of the log written by Jim McClung with N. L. McCullough.

If you have any questions on these items or need any additional information, please call.

Very truly yours,

HINKLE, COX, EATON,  
COFFIELD & HENSLEY

  
Conrad E. Coffield

CEC:rh  
Enclosures

Mr. Richard Stamets

-2-

May 30, 1980

xc/enc: Mr. Mike Williams  
Post Office Drawer DD  
Artesia, New Mexico 88210  
xc: Mr. J. E. Pullig  
Bass Enterprises Production Co.  
Post Office Box 2760  
Midland, Texas 79702  
xc: Mr. John Rodgers  
Bass Enterprises Production Co.  
Post Office Box 2760  
Midland, Texas 79702



MAY 27, 1980

PERRY R. BASS  
BIG EDDY #41  
INDIAN FLATS (ATOKA) FIELD  
EDDY COUNTY, NEW MEXICO  
1980'FSL & 1980'FEL  
SEC. 35 T-21S R-28-E

COMBINATION TEMP. NOISE LOG WAS RAN TO DETERMINE IF THERE WAS A POSSIBILITY OF CHANNELING FROM ADJOINING SALT WATER DISPOSAL WELL.

CONCLUSION IS NO EVIDENCE OF ACITVITY ANYWHERE THROUGH LOG INTERVAL. VERY SLIGHT ON 200 HZ CURVE INDICATES SOME SURFACE NOISE WHICH WAS DETECTABLE ON TAPE RECORDING

SALT WATER DISPOSAL WELL WAS INJECTING DURING LOGGING PROCEDURE AND HAD BEEN FOR 20 HGURS. NO ACTIVITY WAS FOUND, THEREFORE LOG WAS FOUND TO BE INCONCLUSIVE AND ADDITIONAL LOG NOT RAN.

A TAPE RECORDING OF THIS LOG IS AVAILABLE.

THANK YOU,

JIM McCLUNG

*Jim McClung*

Dockets Nos. 13-80 and 14-80 are tentatively set for May 7 and 21, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

**DOCKET: EXAMINER HEARING - WEDNESDAY - APRIL 23, 1980**

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:

**CASE 6803:** (Continued from February 13, 1980, Examiner Hearing)

*Cont'd*  
In the matter of the hearing called by the Oil Conservation Division on its own motion to permit EPROC Associates, Hartford Accident and Indemnity Company, and all other interested parties to appear and show cause why its Monsanto State H Well No. 1 located in Unit E of Section 2, Township 30 North, Range 16 West, San Juan County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

*✓*  
**CASE 6866:** In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Hare and McCoy and all other interested parties to appear and show cause why the H. L. Hare Well No. 2 located in Unit B of Section 23, Township 29 North, Range 11 West, San Juan County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

*✓*  
**CASE 6867:** In the matter of the hearing called by the Oil Conservation Division on its own motion to permit all interested parties to appear and show cause why the following abandoned wells drilled by unknown party or parties and located in Township 29 North, Range 11 West, San Juan County, should not be plugged and abandoned in accordance with a Division-approved plugging program: a well in the SW/4 of Section 24, a well in the SE/4 of Section 22, and a well in the SE/4 of Section 28.

**CASE 6850:** (Continued from April 9, 1980, Examiner Hearing)

*Dismiss*  
In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Jack F. Grimm, N. B. Hunt, George R. Brown, An-Arctic, Ltd., The Travelers Indemnity Company, and all other interested parties to appear and show cause why the Mobil 32 Well No. 1 located in Unit D of Section 32, Township 25 South, Range 1 East, Dona Ana County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

*✓*  
**CASE 6870:** Application of Bass Enterprises Production Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Bass State 36 Well No. 1 located in Unit E of Section 36, Township 15 South, Range 34 East, to produce oil from the Townsend-Wolfcamp Pool and gas from an undesignated Morrow pool thru the tubing and casing-tubing annulus, respectively, by means of a cross-over assembly.

*✓*  
**CASE 6871:** Application of Bass Enterprises Production Company to amend Order No. R-5693, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks to amend Order No. R-5693 to remove the restriction as to the time limit in which salt water may be disposed into Big Eddy Unit Well No. 56 located in Unit G of Section 35, Township 21 South, Range 28 East.

*✓*  
**CASE 6872:** Application of Amoco Production Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its State "HQ" Well No. 1 located in Unit P of Section 26, Township 18 South, Range 24 East, Mississippi River, to produce sand springs and Wolfcamp oil thru parallel strings of tubing.

*✓*  
**CASE 6873:** Application of Harvey E. Yates Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Travis Deep Well No. 5, a Morrow test to be drilled 660 feet from the South line and 1650 feet from the East line of Section 12, Township 18 South, Range 28 East, the S/2 of said Section 12 to be dedicated to the well.

*Dismiss*  
**CASE 6874:** Application of HNG Oil Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the S/2 of Section 6, Township 22 South, Range 35 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6853: (Continued from April 9, 1980, Examiner Hearing)

Application of Caribou Four Corners, Inc. for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Cha Cha-Gallup Pool underlying the N/2 NE/4 of Section 18, Township 29 North, Range 14 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6875: Application of Maurice L. Brown Co. for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the San Andres formation underlying the SE/4 NW/4 of Section 4, Township 9 South, Range 34 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6876: Application of Maurice L. Brown Co. for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Vada-Pennsylvanian Pool underlying the SW/4 of Section 5, Township 9 South, Range 34 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6467: (Reopened and Readvertised)

In the matter of Case 6467 being reopened pursuant to the provisions of Order No. R-5958 which order created the Grama Ridge-Bone Spring Pool in Lea County with temporary special rules therefor providing for 160-acre spacing. All interested parties may appear and show cause why the Grama Ridge-Bone Spring Pool should not be developed on 40-acre spacing units.

CASE 6877: Application of Florida Exploration Company for compulsory pooling and unorthodox well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp thru Ellenburger formations underlying the N/2 of Section 11, Township 25 South, Range 35 East, to be dedicated to a well to be drilled at an unorthodox location 1200 feet from the North and West lines of said Section 11. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6878: Application of Stevens Oil Company for a non-standard gas proration unit, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard gas proration unit comprising the N/2 SW/4 and S/2 NW/4 of Section 25, Township 8 South, Range 28 East, Twin Lakes-San Andres Associated Pool, to be dedicated to its O'Brien "F" Well No. 4 located in Unit K of said Section 25.

CASE 6879: Application of Jake L. Hamon for a tubingless completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to produce his Amerada Federal Well No. 2 located in Unit F of Section 17, Township 20 South, Range 36 East, North Osado-Morrow Gas Pool, thru 4 1/2-inch drill pipe cemented in the hole.

CASE 6861: (Continued from April 9, 1980, Examiner Hearing)

Application of Zia Energy, Inc. for pool creation, special pool rules, and an NGPA determination, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new San Andres oil pool for its State "C" Well No. 1 located in Unit F of Section 17, Township 22 South, Range 37 East, and special rules therefor, including a provision for a limiting gas-oil ratio of 10,000 to 1. Applicant further seeks a new onshore reserve determination for said State "C" Well No. 1.

CASE 6837: (Continued from April 9, 1980, Examiner Hearing)

Application of Curtis Little for compulsory pooling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Dakota formation underlying the W/2 of Section 7, Township 25 North, Range 3 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

**CASE 6487:** (Continued from February 13, 1980, Examiner Hearing)

*Cont  
6-25*

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

**CASE 6868:** In the matter of the hearing called by the Oil Conservation Division on its own motion for an order contracting and extending certain pools in San Juan, Rio Arriba, Sandoval, and McKinley Counties, New Mexico:

- ✓ (a) CONTRACT the Bisti-Farmington Pool in San Juan County, New Mexico, by deleting:

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM  
Section 20: W/2

- (b) CONTRACT the Blanco-Pictured Cliffs Pool in San Juan and Rio Arriba Counties, New Mexico, by deleting:

TOWNSHIP 30 NORTH, RANGE 10 WEST, NMPM  
Section 35: NW/4

- (c) EXTEND the Albino-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 32 NORTH, RANGE 8 WEST, NMPM  
Section 24: W/2  
Section 25: W/2  
Section 26: SE/4  
Section 36: W/2

- (d) EXTEND the Aztec-Fruitland Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 10 WEST, NMPM  
Section 17: S/2

- (e) EXTEND the Aztec-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 9 WEST, NMPM  
Section 34: NW/4

TOWNSHIP 30 NORTH, RANGE 10 WEST, NMPM  
Section 6: SE/4

TOWNSHIP 31 NORTH, RANGE 11 WEST, NMPM  
Section 7: SW/4  
Section 17: S/2

TOWNSHIP 31 NORTH, RANGE 12 WEST, NMPM  
Section 23: NE/4

- (f) EXTEND the Blanco-Pictured Cliffs Pool in Rio Arriba, Sandoval, and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 8 WEST, NMPM  
Section 15: NW/4

- (g) EXTEND the Bisti-Farmington Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM  
Section 29: S/2  
Section 30: SE/4 and W/2

- (h) EXTEND the Bisti-Lower Gallup Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 25 NORTH, RANGE 12 WEST, NMPM  
Section 22: NW/4



Examiner Hearing - Wednesday - April 23, 1980

Docket No. 12-80

- (i) EXTEND the Blanco-Fruitland Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 9 WEST, NMPM  
 Section 1: SW/4  
 Section 2: SE/4

TOWNSHIP 30 NORTH, RANGE 9 WEST, NMPM  
 Section 10: SW/4  
 Section 16: NW/4

- (j) EXTEND the Blanco Mesaverde Pool in Rio Arriba and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 25 NORTH, RANGE 3 WEST, NMPM  
 Section 3: N/2  
 Section 5: N/2  
 Section 6: All  
 Section 7: All  
 Section 8: W/2

TOWNSHIP 26 NORTH, RANGE 2 WEST, NMPM  
 Section 4: All

TOWNSHIP 27 NORTH, RANGE 2 WEST, NMPM  
 Section 17: E/2

- (k) EXTEND the Blanco-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 8 WEST, NMPM  
 Section 10: NE/4 and S/2

TOWNSHIP 29 NORTH, RANGE 9 WEST, NMPM  
 Section 20: NE/4

TOWNSHIP 30 NORTH, RANGE 8 WEST, NMPM  
 Section 19: All  
 Section 29: NW/4  
 Section 30: N/2

TOWNSHIP 30 NORTH, RANGE 9 WEST, NMPM  
 Section 10: SW/4  
 Section 24: E/2

TOWNSHIP 30 NORTH, RANGE 10 WEST, NMPM  
 Section 8: NW/4

TOWNSHIP 31 NORTH, RANGE 9 WEST, NMPM  
 Section 7: NE/4  
 Section 19: NW/4

TOWNSHIP 31 NORTH, RANGE 10 WEST, NMPM  
 Section 24: E/2 and SW/4

TOWNSHIP 31 NORTH, RANGE 11 WEST, NMPM  
 Section 15: SW/4  
 Section 18: NW/4  
 Section 21: NE/4  
 Section 22: NE/4

TOWNSHIP 31 NORTH, RANGE 12 WEST, NMPM  
 Section 1: N/2

TOWNSHIP 32 NORTH, RANGE 10 WEST, NMPM  
 Section 33: S/2

TOWNSHIP 32 NORTH, RANGE 12 WEST, NMPM

Section 10: E/2  
 Section 11: All  
 Section 13: SW/4  
 Section 14: All  
 Section 24: NW/4  
 Section 25: N/2  
 Section 26: NE/4  
 Section 35: E/2 and SW/4

- (1) EXTEND the South Blanco-Pictured Cliffs Pool in Rio Arriba, San Juan, and Sandoval Counties, New Mexico, to include therein:

TOWNSHIP 23 NORTH, RANGE 1 WEST, NMPM

Section 19: E/2  
 Section 30: NE/4

TOWNSHIP 23 NORTH, RANGE 2 WEST, NMPM

Section 26: NE/4

TOWNSHIP 24 NORTH, RANGE 3 WEST, NMPM

Section 36: NW/4

TOWNSHIP 27 NORTH, RANGE 7 WEST, NMPM

Section 12: SE/4

TOWNSHIP 28 NORTH, RANGE 6 WEST, NMPM

Section 34: NE/4

- (m) EXTEND the East Blanco-Pictured Cliffs Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 30 NORTH, RANGE 4 WEST, NMPM

Section 4: W/2

TOWNSHIP 31 NORTH, RANGE 4 WEST, NMPM

Section 33: SW/4

- (n) EXTEND the Bloomfield-Farmington Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 11 WEST, NMPM

Section 25: SE/4

- (o) EXTEND the Campo-Gallup Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 4 WEST, NMPM

Section 12: SE/4

Section 13: NE/4

- (p) EXTEND the Cha Cha-Gallup Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 14 WEST, NMPM

Section 18: N/2 SW/4 and NW/4 SE/4

TOWNSHIP 29 NORTH, RANGE 15 WEST, NMPM

Section 13: NE/4 and N/2 SE/4

- (q) EXTEND the Chacon-Delata Associated Pool in Rio Arriba and Sandoval Counties, New Mexico, to include therein:

TOWNSHIP 23 NORTH, RANGE 3 WEST, NMPM

Section 25: NW/4

Section 26: NE/4

Section 34: SW/4

Section 35: NE/4

Section 36: NW/4

TOWNSHIP 24 NORTH, RANGE 3 WEST, NMPM

Section 20: E/2

Section 34: NW/4

- (r) EXTEND the Choza Mesa-Pictured Cliffs Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 28 NORTH, RANGE 3 WEST, NMPM  
Section 19: S/2  
Section 30: N/2

TOWNSHIP 28 NORTH, RANGE 4 WEST, NMPM  
Section 9: E/2  
Section 10: All  
Section 16: E/2  
Section 21: NE/4

- (s) EXTEND the Escrito-Gallup Oil Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 7 WEST, NMPM  
Section 21: SW/4

- (t) EXTEND the Fulcher Kutz-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 11 WEST, NMPM  
Section 25: SE/4  
Section 36: NE/4 and S/2

- (u) EXTEND the Gobernador-Pictured Cliffs Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 5 WEST, NMPM  
Section 4: N/2 and SE/4  
Section 5: N/2  
Section 6: N/2  
Section 15: S/2  
Section 23: NW/4 and SE/4  
Section 25: NW/4

TOWNSHIP 29 NORTH, RANGE 6 WEST, NMPM  
Section 1: NE/4

TOWNSHIP 30 NORTH, RANGE 5 WEST, NMPM  
Section 31: SW/4

- (v) EXTEND the Harper Hill Fruitland-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 30 NORTH, RANGE 14 WEST, NMPM  
Section 27: SE/4  
Section 34: NE/4  
Section 35: SW/4

- (w) EXTEND the Harris Mesa-Chacra Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 27 NORTH, RANGE 9 WEST, NMPM  
Section 11: S/2  
Section 12: SW/4  
Section 13: N/2  
Section 14: NE/4

- (x) EXTEND the West Kutz-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 13 WEST, NMPM  
Section 24: S/2

- (y) EXTEND the Largo-Chacra Pool in Rio Arriba and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 27 NORTH, RANGE 7 WEST, NMPM  
Section 28: SE/4

- (z) EXTEND the South Lindrith Gallup-Dakota Oil Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 4 WEST, NMPM  
Section 21: SW/4  
Section 27: N/2

(aa) EXTEND the West Lindrith Gallup-Dakota Oil Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 3 WEST, NMPM  
Section 17: NW/4

TOWNSHIP 24 NORTH, RANGE 4 WEST, NMPM  
Section 3: SW/4  
Section 5: S/2  
Section 6: S/2  
Section 7: N/2 and SW/4  
Section 8: N/2  
Section 11: SW/4  
Section 14: NE/4  
Section 24: SW/4

TOWNSHIP 25 NORTH, RANGE 4 WEST, NMPM  
Section 23: NW/4  
Section 30: SW/4  
Section 31: SE/4

(bb) EXTEND the South Los Pinos Fruitland-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 31 NORTH, RANGE 7 WEST, NMPM  
Section 1: W/2  
Section 10: SE/4  
Section 11: N/2

TOWNSHIP 32 NORTH, RANGE 7 WEST, NMPM  
Section 26: SE/4  
Section 34: SE/4

(cc) EXTEND the Otero-Chacra Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 7 WEST, NMPM  
Section 23: N/2  
Section 25: N/2 and SE/4

(dd) EXTEND the Otero-Gallup Oil Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 5 WEST, NMPM  
Section 2: N/2 NW/4

TOWNSHIP 25 NORTH, RANGE 5 WEST, NMPM  
Section 22: NE/4  
Section 23: NW/4  
Section 34: W/2 SW/4 and SE/4  
Section 35: SW/4 SW/4

(ee) EXTEND the Betty Chacra Pool in Sandoval County, New Mexico, to include therein:

TOWNSHIP 22 NORTH, RANGE 6 WEST, NMPM  
Section 18: SW/4  
Section 19: All  
Section 20: SW/4  
Section 28: NW/4  
Section 29: N/2  
Section 30: NE/4

TOWNSHIP 22 NORTH, RANGE 7 WEST, NMPM  
Section 10: S/2  
Section 11: SW/4  
Section 14: W/2  
Section 15: SE/4  
Section 20: NE/4

(ff) EXTEND the Star-Mesaverde Oil Pool in McKinley County, New Mexico, to include therein:

TOWNSHIP 19 NORTH, RANGE 6 WEST, NMPM  
Section 16: N/2 NE/4

(gg) EXTEND the Ute Dome-Dakota Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 32 NORTH, RANGE 14 WEST, NMPM  
Section 25: W/2

(hh) EXTEND the WAW Fruitland-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM  
Section 19: S/2 and NE/4  
Section 30: NW/4  
Section 31: NE/4  
Section 36: NW/4

TOWNSHIP 26 NORTH, RANGE 13 WEST, NMPM  
Section 2: S/2  
Section 3: S/2  
Section 9: NE/4  
Section 10: N/2  
Section 11: All  
Section 12: W/2  
Section 13: NW/4  
Section 14: N/2  
Section 24: E/2

TOWNSHIP 27 NORTH, RANGE 13 WEST, NMPM  
Section 7: W/2 and SE/4  
Section 17: W/2 and SE/4  
Section 20: E/2  
Section 21: W/2  
Section 28: All

CASE 6869: In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating, contracting and extending the vertical and horizontal limits of certain pools in Chaves, Eddy, Lea, and Roosevelt Counties, New Mexico:

(a) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Wolfcamp production and designated as the East Anderson Ranch-Wolfcamp Pool. The discovery well is Holly Energy, Inc. Pogo State Well No. 1 located in Unit H of Section 19, Township 16 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 33 EAST, NMPM  
Section 19: NE/4

(b) CREATE a new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production and designated as the Bull's Eye-San Andres Pool. The discovery well is Ralph Nix Union Happy Well No. 1 located in Unit O of Section 1, Township 8 South, Range 28 East, NMPM. Said pool would comprise:

TOWNSHIP 8 SOUTH, RANGE 28 EAST, NMPM  
Section 1: SE/4 and S/2 NE/4  
Section 17: NE/4

TOWNSHIP 8 SOUTH, RANGE 29 EAST, NMPM  
Section 6: W/2 SW/4  
Section 7: W/2 NW/4

(c) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for San Andres Production and designated as the Cary-San Andres Pool. The discovery well is Zia Energy, Inc. State C Well No. 1 located in Unit F of Section 17, Township 22 South, Range 37 East, NMPM. Said pool would comprise:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM  
Section 17: NW/4

(d) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Grayburg production and designated as the Diamond Mound-Grayburg Gas Pool. The discovery well is Mesa Petroleum Company Sink Federal Well No. 1 located in Unit I of Section 9, Township 16 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 27 EAST, NMPM  
Section 9: SE/4

(e) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Diamond Mound-Morrow Gas Pool. The discovery well is Mesa Petroleum Company Derrick Federal Com Well No. 1 located in Unit K of Section 5, Township 16 South, Range 28 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 28 EAST, NMPM  
Section 5: Lots 3, 4, 5, 6, 11, 12,  
13, and 14

(f) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Abo production and designated as the Gopher-Abo Gas Pool. The discovery well is Mesa Petroleum Company Catclaw State Well No. 1 located in Unit G of Section 31, Township 17 South, Range 24 East, NMPM. Said pool would comprise:

TOWNSHIP 17 SOUTH, RANGE 24 EAST, NMPM  
Section 31: NE/4

(g) CREATE a new pool in Eddy County, New Mexico, classified as an oil pool for Upper Pennsylvanian production and designated as the Grayburg-Upper Pennsylvanian Pool. The discovery well is Depco, Inc. Conoco State Well No. 1 located in Unit K of Section 15, Township 17 South, Range 29 East, NMPM. Said pool would comprise:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM  
Section 15: SW/4

(h) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Drinkard production and designated as the Hardy-Drinkard Pool. The discovery well is Amoco Production Company State C Tr. 11 Well No. 11 located in Unit X of Section 2, Township 21 South, Range 36 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM  
Section 2: SE/4  
Section 11: NE/4

(i) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Logan Draw-Atoka Gas Pool. The discovery well is Mesa Petroleum Company Maralo Federal Com Well No. 1 located in Unit L of Section 22, Township 17 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM  
Section 22: W/2

(j) CREATE a new pool in Chaves County, New Mexico, classified as an oil pool for Queen production and designated as the Rabbit Flats-Queen Pool. The discovery well is Rapid Company, Inc. Copelan State Well No. 1 located in Unit C of Section 31, Township 10 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 10 SOUTH, RANGE 27 EAST, NMPM  
Section 31: NE/4 NW/4 and N/2 NE/4

(k) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the Ross Draw-Wolfcamp Gas Pool. The discovery well is Florida Gas Exploration Company Ross Draw Unit Well No. 7 located in Unit J of Section 26, Township 26 South, Range 30 East, NMPM. Said pool would comprise:

TOWNSHIP 26 SOUTH, RANGE 30 EAST, NMPM  
Section 26: S/2  
Section 27: All

(l) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Sand Point-Morrow Gas Pool. The discovery well is Perry R. Bass Big Eddy Unit Well No. 72 located in Unit B of Section 3, Township 21 South, Range 28 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 28 EAST, NMPM  
Section 3: S/2

(m) CREATE a new pool in Chaves County, New Mexico, classified as a gas pool for Mississippian production and designated as the Sand Ranch-Mississippian Gas Pool. The discovery well is MGF Oil Corporation Bikar Federal Well No. 1 located in Unit G of Section 14, Township 10 South, Range 29 East, NMPM. Said pool would comprise:

TOWNSHIP 10 SOUTH, RANGE 29 EAST, NMPM  
Section 14: N/2

(n) CREATE a new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production and designated as the North Tom Tom-San Andres Pool. The discovery well is NRM Petroleum Corporation Mooney Well No. 1 located in Unit A of Section 17, Township 7 South, Range 31 East, NMPM. Said pool would comprise:

TOWNSHIP 7 SOUTH, RANGE 31 E. 1, NMPM  
Section 17: NE/4

(o) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Bone Springs production and designated as the Tonto-Bone Springs Pool. The discovery well is Amoco Production Company Nellis A Federal Well No. 1 located in Unit E of Section 8, Township 19 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM  
Section 8: NW/4

(p) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Mississippian production and designated as the Townsend-Mississippian Gas Pool. The discovery well is Allen K. Trobaugh Eidson Com Well No. 1 located in Unit G of Section 28, Township 16 South, Range 35 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM  
Section 28: NE/4

(q) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Fusselman production and designated as the Wantz-Fusselman Pool. The discovery well is N. B. Hunt Mittie Weatherly Well No. 8 located in Unit G of Section 21, Township 21 South, Range 37 East, NMPM. Said pool would comprise:

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

(r) EXTEND the Airstrip-Lower Bone Springs Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM  
Section 25: NW/4

(s) EXTEND the West Arkansas Junction-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 36 EAST, NMPM  
Section 28: NW/4

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

TOWNSHIP 21 SOUTH, RANGE 26 EAST, NMPM  
Section 5: S/2

(u) EXTEND the Bar U-Pennsylvanian Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 33 EAST, NMPM  
Section 31: N/2

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

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

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

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM  
Section 11: All

- (x) EXTEND the East Caprock-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 12 SOUTH, RANGE 32 EAST, NMPM  
Section 14: SW/4  
Section 23: W/2

- (y) CONTRACT the horizontal limits of the Cato-San Andres Pool in Chaves County, New Mexico, by the deletion of the following described area:

TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMPM  
Section 5: NW/4

- and EXTEND the horizontal limits of said pool to include therein:

TOWNSHIP 8 SOUTH, RANGE 30 EAST, NMPM  
Section 4: SE/4

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

TOWNSHIP 7 SOUTH, RANGE 32 EAST, NMPM  
Section 34: NW/4

- (aa) EXTEND the Comanche Stateline Tansill-Yates Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 26 SOUTH, RANGE 36 EAST, NMPM  
Section 21: NW/4

- (bb) EXTEND the South Culebra Bluff-Bone Springs Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM  
Section 22: NE/4  
Section 23: NW/4

- (cc) EXTEND the Custer-Devonian Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 36 EAST, NMPM  
Section 25: W/2

- (dd) EXTEND the Double L-Queen Associated Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 29 EAST, NMPM  
Section 1: W/2, SW/4 NE/4 and W/2 SE/4

- (ee) EXTEND the Eagle Creek Perno-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM  
Section 3: All

- (ff) EXTEND the South Eunice-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM  
Section 10: SE/4

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

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM  
Section 26: S/2

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

TOWNSHIP 22 SOUTH, RANGE 34 EAST, NMPM  
Section 1: W/2



(ii) EXTEND the Cross Ridge-Wolfcamp Gas Pool in Lea County, New Mexico, to include therein:  
TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM  
Section 36: N/2 and SE/4

(jj) EXTEND the Hobbs-Drinkard Pool in Lea County, New Mexico, to include therein:  
TOWNSHIP 18 SOUTH, RANGE 38 EAST, NMPM  
Section 34: W/2

(kk) EXTEND the Jalmar Yates-Seven Rivers Pool in Lea County, New Mexico, to include therein:  
TOWNSHIP 19 SOUTH, RANGE 38 EAST, NMPM  
Section 3: NW/4

(ll) EXTEND the Justis-Paddock Pool in Lea County, New Mexico, to include therein:  
TOWNSHIP 23 SOUTH, RANGE 36 EAST, NMPM  
Section 28: S/2 NW/4

(mm) EXTEND the Langley-Devonian Gas Pool in Lea County, New Mexico, to include therein:  
TOWNSHIP 25 SOUTH, RANGE 37 EAST, NMPM  
Section 25: S/2

(nn) EXTEND the Langley-Devonian Gas Pool in Lea County, New Mexico, to include therein:  
TOWNSHIP 25 SOUTH, RANGE 38 EAST, NMPM  
Section 30: SW/4

(oo) EXTEND the Langley-Ellenburger Gas Pool in Lea County, New Mexico, to include therein:  
TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM  
Section 17: S/2  
Section 28: N/2

(pp) EXTEND the Leamer-Wolfcamp Pool in Lea County, New Mexico, to include therein:  
TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM  
Section 17: S/2

(qq) EXTEND the Logan Draw-Morrow Gas Pool in Eddy County, New Mexico, to include therein:  
TOWNSHIP 17 SOUTH, RANGE 33 EAST, NMPM  
Section 21: N/2 N/2

(rr) EXTEND the Logan Draw-Morrow Gas Pool in Eddy County, New Mexico, to include therein:  
TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM  
Section 20: All  
Section 21: S/2  
Section 28: E/2  
Section 33: E/2

(ss) EXTEND the Northeast Lovington-Pennsylvanian Pool in Lea County, New Mexico, to include therein:  
TOWNSHIP 16 SOUTH, RANGE 37 EAST, NMPM  
Section 18: NE/4

(tt) EXTEND the Parkway-Strawn Pool in Eddy County, New Mexico, to include therein:  
TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMPM  
Section 25: SW/4

(uu) EXTEND the West Parkway-Morrow Gas Pool in Eddy County, New Mexico, to include therein:  
TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMPM  
Section 21: S/2  
Section 22: All

- (cc) EXTEND the South Peterson-Fusselman Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 5 SOUTH, RANGE 32 EAST, NMPM  
Section 25: SE/4

*Addition  
Sec 36: NE/4*

- (uu) EXTEND the North Quail Ridge-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM  
Section 12: E/2

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM  
Section 7: W/2

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

TOWNSHIP 20 SOUTH, RANGE 32 EAST, NMPM  
Section 25: SW/4  
Section 36: NW/4

- (ww) EXTEND the Scoggia Draw-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM  
Section 3: E/2  
Section 10: E/2

- (xx) EXTEND the Shugart Yates-Seven Rivers Queen-Grayburg Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM  
Section 35: N/2 NE/4

- (yy) EXTEND the vertical limits of the Sioux-Yates Pool in Lea County, New Mexico, to include the Tansill formation and redesignate said pool as the Sioux Tansill-Yates Pool, and extend the horizontal limits of said pool to include therein:

TOWNSHIP 26 SOUTH, RANGE 36 EAST, NMPM  
Section 16: N/2 and SE/4

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

TOWNSHIP 7 SOUTH, RANGE 31 EAST, NMPM  
Section 25: NW/4  
Section 26: SE/4  
Section 28: SW/4

TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMPM  
Section 5: NW/4 and N/2 SW/4

- (aaa) EXTEND the West Tonto-Pennsylvanian Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM  
Section 18: NE/4

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

TOWNSHIP 19 SOUTH, RANGE 27 EAST, NMPM  
Section 11: All  
Section 14: E/2

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

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NMPM  
Section 27: S/2

- (ddd) EXTEND the Warren-Tubb Gas Pool in Lea County, New Mexico, to include therein:

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

(ccc) EXTEND the White Ranch-Mississippian Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 11 SOUTH, RANGE 29 EAST, N1/4  
Section 34: E/2

(fff) EXTEND the Wilson-Strawn Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 34 EAST, N1/4  
Section 12: SE/4  
Section 13: NE/4

Dockets Nos. 11-80 and 14-80 are tentatively set for May 7 and 21, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - APRIL 23, 1980

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:

CASE 6803: (Continued from February 13, 1980, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit EPROC Associates, Hartford Accident and Indemnity Company, and all other interested parties to appear and show cause why its Monsanto State H Well No. 1 located in Unit E of Section 2, Township 30 North, Range 16 West, San Juan County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

CASE 6866: In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Hare and McCoy and all other interested parties to appear and show cause why the H. L. Hare Well No. 2 located in Unit B of Section 23, Township 29 North, Range 11 West, San Juan County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

CASE 6867: In the matter of the hearing called by the Oil Conservation Division on its own motion to permit all interested parties to appear and show cause why the following abandoned wells drilled by unknown party or parties and located in Township 29 North, Range 11 West, San Juan County, should not be plugged and abandoned in accordance with a Division-approved plugging program: a well in the SW/4 of Section 24, a well in the SE/4 of Section 22, and a well in the SE/4 of Section 28.

CASE 6850: (Continued from April 9, 1980, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Jack F. Grimm, N. B. Hunt, George R. Brown, Am-Arctic, Ltd., The Travelers Indemnity Company, and all other interested parties to appear and show cause why the Mobil 32 Well No. 1 located in Unit D of Section 32, Township 25 South, Range 1 East, Dona Ana County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

CASE 6870: Application of Bass Enterprises Production Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Bass State 36 Well No. 1 located in Unit E of Section 36, Township 15 South, Range 34 East, to produce oil from the Townsend-Wolfcamp Pool and gas from an undesignated Morrow pool thru the tubing and casing-tubing annulus, respectively, by means of a cross-over assembly.

CASE 6871: Application of Bass Enterprises Production Company to amend Order No. R-5693, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks to amend Order No. R-5693 to remove the restriction as to the time limit in which salt water may be disposed into Big Eddy Unit Well No. 56 located in Unit C of Section 35, Township 21 South, Range 28 East.

CASE 6872: Application of Amoco Production Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its State "HQ" Well No. 1 located in Unit P of Section 26, Township 18 South, Range 34 East, Airstrip Field, to produce Bone Springs and Wolfcamp oil thru parallel strings of tubing.

CASE 6873: Application of Harvey E. Yates Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Travis Deep Well No. 5, a Morrow test to be drilled 660 feet from the South line and 1670 feet from the East line of Section 12, Township 18 South, Range 28 East, the S/2 of said Section 12 to be dedicated to the well.

CASE 6874: Application of HNC Oil Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the E/2 of Section 6, Township 22 South, Range 35 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6853: (Continued from April 9, 1980, Examiner Hearing)

Application of Caribou Four Corners, Inc. for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Cha Cha-Gallup Pool underlying the N/2 NE/4 of Section 18, Township 29 North, Range 14 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6875: Application of Maurice L. Brown Co. for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the San Andres formation underlying the SE/4 NW/4 of Section 4, Township 9 South, Range 34 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6876: Application of Maurice L. Brown Co. for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Vada-Pennsylvanian Pool underlying the SW/4 of Section 5, Township 9 South, Range 34 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6467: (Reopened and Readvertised)

In the matter of Case 6467 being reopened pursuant to the provisions of Order No. R-5958 which order created the Grama Ridge-Bone Spring Pool in Lea County with temporary special rules therefor providing for 160-acre spacing. All interested parties may appear and show cause why the Grama Ridge-Bone Spring Pool should not be developed on 40-acre spacing units.

CASE 6877: Application of Florida Exploration Company for compulsory pooling and unorthodox well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp thru Ellenburger formations underlying the N/2 of Section 11, Township 25 South, Range 35 East, to be dedicated to a well to be drilled at an unorthodox location 1200 feet from the North and West lines of said Section 11. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6878: Application of Stevens Oil Company for a non-standard gas proration unit, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard gas proration unit comprising the N/2 SW/4 and S/2 NW/4 of Section 25, Township 8 South, Range 28 East, Twin Lakes-San Andres Associated Pool, to be dedicated to its O'Brien "F" Well No. 4 located in Unit K of said Section 25.

CASE 6879: Application of Jake L. Hamon for a tubingless completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to produce his Amerada Federal Well No. 2 located in Unit F of Section 17, Township 20 South, Range 36 East, North Osudo-Morrow Gas Pool, when a 1/2-inch drill pipe cemented in the hole.

CASE 6861: (Continued from April 9, 1980, Examiner Hearing)

Application of Zia Energy, Inc. for pool creation, special pool rules, and onshore determination, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new San Andres oil pool for its State "C" Well No. 1 located in Unit F of Section 17, Township 22 South, Range 37 East, and special rules therefor, including a provision for a limiting gas-oil ratio of 10,000 to 1. Applicant further seeks a new onshore reservoir determination for said State "C" Well No. 1.

CASE 6837: (Continued from April 9, 1980, Examiner Hearing)

Application of Curtis Little for compulsory pooling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Dakota formation underlying the W/2 of Section 7, Township 25 North, Range 3 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

**CASE 6487:** (Continued from February 13, 1980, Examiner Hearing)

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

**CASE 6868:** In the matter of the hearing called by the Oil Conservation Division on its own motion for an order contracting and extending certain pools in San Juan, Rio Arriba, Sandoval, and McKinley Counties, New Mexico:

(a) CONTRACT the Bisti-Farmington Pool in San Juan County, New Mexico, by deleting:

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM  
Section 20: W/2

(b) CONTRACT the Blanco-Pictured Cliffs Pool in San Juan and Rio Arriba Counties, New Mexico, by deleting:

TOWNSHIP 30 NORTH, RANGE 10 WEST, NMPM  
Section 35: NW/4

(c) EXTEND the Albino-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 32 NORTH, RANGE 8 WEST, NMPM  
Section 24: W/2  
Section 25: W/2  
Section 26: SE/4  
Section 36: W/2

(d) EXTEND the Aztec-Fruitland Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 10 WEST, NMPM  
Section 17: S/2

(e) EXTEND the Aztec-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 9 WEST, NMPM  
Section 34: NW/4

TOWNSHIP 30 NORTH, RANGE 10 WEST, NMPM  
Section 6: SE/4

TOWNSHIP 31 NORTH, RANGE 11 WEST, NMPM  
Section 7: SW/4  
Section 17: S/2

TOWNSHIP 31 NORTH, RANGE 12 WEST, NMPM  
Section 23: NE/4

(f) EXTEND the Ballard-Pictured Cliffs Pool in Rio Arriba, Sandoval, and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 8 WEST, NMPM  
Section 15: NW/4

(g) EXTEND the Bisti-Farmington Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM  
Section 29: S/2  
Section 30: SE/4 and W/2

(h) EXTEND the Bisti-Lower Gallup Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 25 NORTH, RANGE 12 WEST, NMPM  
Section 22: NW/4

(i) EXTEND the Blanco-Fruitland Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 9 WEST, NMPM

Section 1: SW/4

Section 2: SE/4

TOWNSHIP 30 NORTH, RANGE 9 WEST, NMPM

Section 10: SW/4

Section 16: NW/4

(j) EXTEND the Blanco Mesaverde Pool in Rio Arriba and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 25 NORTH, RANGE 1 WEST, NMPM

Section 3: N/2

Section 5: N/2

Section 6: All

Section 7: All

Section 8: W/2

TOWNSHIP 26 NORTH, RANGE 2 WEST, NMPM

Section 4: All

TOWNSHIP 27 NORTH, RANGE 2 WEST, NMPM

Section 17: E/2

(k) EXTEND the Blanco-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 8 WEST, NMPM

Section 10: NE/4 and S/2

TOWNSHIP 29 NORTH, RANGE 9 WEST, NMPM

Section 20: NE/4

TOWNSHIP 30 NORTH, RANGE 8 WEST, NMPM

Section 19: All

Section 29: NW/4

Section 30: N/2

TOWNSHIP 30 NORTH, RANGE 9 WEST, NMPM

Section 10: SW/4

Section 24: E/2

TOWNSHIP 30 NORTH, RANGE 10 WEST, NMPM

Section 8: NW/4

TOWNSHIP 31 NORTH, RANGE 9 WEST, NMPM

Section 7: NE/4

Section 19: NW/4

TOWNSHIP 31 NORTH, RANGE 10 WEST, NMPM

Section 24: E/2 and SW/4

TOWNSHIP 31 NORTH, RANGE 11 WEST, NMPM

Section 15: SW/4

Section 18: NE/4

Section 21: NE/4

Section 22: NE/4

TOWNSHIP 31 NORTH, RANGE 12 WEST, NMPM

Section 1: N/2

TOWNSHIP 32 NORTH, RANGE 10 WEST, NMPM

Section 33: S/2

TOWNSHIP 32 NORTH, RANGE 12 WEST, NMPM

Section 10: E/2  
Section 11: All  
Section 13: SW/4  
Section 14: All  
Section 24: NW/4  
Section 25: N/2  
Section 26: NE/4  
Section 35: E/2 and SW/4

- (1) EXTEND the South Blanco-Pictured Cliffs Pool in Rio Arriba, San Juan, and Sandoval Counties, New Mexico, to include therein:

TOWNSHIP 23 NORTH, RANGE 1 WEST, NMPM

Section 19: E/2  
Section 30: NE/4

TOWNSHIP 23 NORTH, RANGE 2 WEST, NMPM

Section 26: NE/4

TOWNSHIP 24 NORTH, RANGE 3 WEST, NMPM

Section 36: NW/4

TOWNSHIP 27 NORTH, RANGE 7 WEST, NMPM

Section 12: SE/4

TOWNSHIP 28 NORTH, RANGE 6 WEST, NMPM

Section 34: NE/4

- (m) EXTEND the East Blanco-Pictured Cliffs Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 30 NORTH, RANGE 4 WEST, NMPM

Section 4: W/2

TOWNSHIP 31 NORTH, RANGE 4 WEST, NMPM

Section 33: SW/4

- (n) EXTEND the Bloomfield-Farmington Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 11 WEST, NMPM

Section 25: SE/4

- (o) EXTEND the Campo-Gallup Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 4 WEST, NMPM

Section 12: SE/4

Section 13: NE/4

- (p) EXTEND the Cha Cha-Gallup Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 11 WEST, NMPM

Section 18: N/2 SW/4 and NW/4 SE/4

TOWNSHIP 29 NORTH, RANGE 15 WEST, NMPM

Section 13: NE/4 and N/2 SE/4

- (q) EXTEND the Chacon-Dakota Associated Pool in Rio Arriba and Sandoval Counties, New Mexico, to include therein:

TOWNSHIP 23 NORTH, RANGE 3 WEST, NMPM

Section 25: NW/4  
Section 26: NE/4  
Section 34: SW/4  
Section 35: NE/4  
Section 36: NW/4

TOWNSHIP 24 NORTH, RANGE 3 WEST, NMPM

Section 20: E/2  
Section 34: NW/4



- (r) EXTEND the Chosa Mesa-Pictured Cliffs Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 28 NORTH, RANGE 3 WEST, NMPM  
Section 19: S/2  
Section 30: N/2

TOWNSHIP 28 NORTH, RANGE 4 WEST, NMPM  
Section 9: E/2  
Section 10: All  
Section 16: E/2  
Section 21: NE/4

- (s) EXTEND the Escrito-Gallup Oil Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 7 WEST, NMPM  
Section 21: SW/4

- (t) EXTEND the Fulcher Kutz-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 11 WEST, NMPM  
Section 25: SE/4  
Section 36: NE/4 and S/2

- (u) EXTEND the Gobernador-Pictured Cliffs Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 5 WEST, NMPM  
Section 4: N/2 and SE/4  
Section 5: N/2  
Section 6: N/2  
Section 15: S/2  
Section 23: NW/4 and SE/4  
Section 25: NW/4

TOWNSHIP 29 NORTH, RANGE 6 WEST, NMPM  
Section 1: NE/4

TOWNSHIP 30 NORTH, RANGE 5 WEST, NMPM  
Section 31: SW/4

- (v) EXTEND the Harper Hill Fruitland-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 30 NORTH, RANGE 14 WEST, NMPM  
Section 27: SE/4  
Section 34: NE/4  
Section 35: SW/4

- (w) EXTEND the Harris Mesa-Chacra Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 27 NORTH, RANGE 9 WEST, NMPM  
Section 11: S/2  
Section 12: SW/4  
Section 13: S/2  
Section 14: NE/4

- (x) EXTEND the West Kutz-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 13 WEST, NMPM  
Section 24: S/2

- (y) EXTEND the Largo-Chacra Pool in Rio Arriba and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 27 NORTH, RANGE 7 WEST, NMPM  
Section 28: SE/4

- (z) EXTEND the South Lindrith Gallup-Dakota Oil Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 4 WEST, NMPM  
Section 21: SW/4  
Section 27: N/2

(aa) EXTEND the West Lindrith Gallup-Dakota Oil Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 3 WEST, NMPM  
Section 17: NW/4

TOWNSHIP 24 NORTH, RANGE 4 WEST, NMPM  
Section 3: SW/4  
Section 5: S/2  
Section 6: S/2  
Section 7: N/2 and SW/4  
Section 8: N/2  
Section 11: SW/4  
Section 14: NE/4  
Section 24: SW/4

TOWNSHIP 25 NORTH, RANGE 4 WEST, NMPM  
Section 23: NW/4  
Section 30: SW/4  
Section 31: SE/4

(bb) EXTEND the South Los Pinos Fruitland-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 31 NORTH, RANGE 7 WEST, NMPM  
Section 1: W/2  
Section 10: SE/4  
Section 11: N/2

TOWNSHIP 32 NORTH, RANGE 7 WEST, NMPM  
Section 26: SE/4  
Section 34: SE/4

(cc) EXTEND the Otero-Chacra Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 7 WEST, NMPM  
Section 23: N/2  
Section 25: N/2 and SE/4

(dd) EXTEND the Otero-Gallup Oil Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 5 WEST, NMPM  
Section 2: N/2 NW/4

TOWNSHIP 25 NORTH, RANGE 5 WEST, NMPM  
Section 22: NE/4  
Section 23: NW/4  
Section 34: W/2 SW/4 and SE/4  
Section 35: SW/4 SW/4

(ee) EXTEND the Rusty-Chacra Pool in Sandoval County, New Mexico, to include therein:

TOWNSHIP 22 NORTH, RANGE 6 WEST, NMPM  
Section 19: SW/4  
Section 19: All  
Section 20: SW/4  
Section 28: NW/4  
Section 29: N/2  
Section 30: NE/4

TOWNSHIP 22 NORTH, RANGE 7 WEST, NMPM  
Section 10: S/2  
Section 11: SW/4  
Section 14: W/2  
Section 15: SE/4  
Section 20: NE/4

(ff) EXTEND the Star-Mesaverde Oil Pool in McKinley County, New Mexico, to include therein:

TOWNSHIP 19 NORTH, RANGE 6 WEST, NMPM  
Section 16: N/2 NE/4

(gg) EXTEND the Ute Dome-Dakota Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 32 NORTH, RANGE 14 WEST, NMPM  
Section 25: W/2

(hh) EXTEND the MAM Fruitland-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM  
Section 19: S/2 and NW/4  
Section 30: NW/4  
Section 31: NE/4  
Section 36: NW/4

TOWNSHIP 26 NORTH, RANGE 13 WEST, NMPM  
Section 2: S/2  
Section 3: S/2  
Section 9: NE/4  
Section 10: W/2  
Section 11: All  
Section 12: W/2  
Section 13: NW/4  
Section 14: N/2  
Section 24: E/2

TOWNSHIP 27 NORTH, RANGE 13 WEST, NMPM  
Section 7: W/2 and SE/4  
Section 17: W/2 and SE/4  
Section 20: E/2  
Section 21: W/2  
Section 28: All

CASE 6869: In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating, contracting and extending the vertical and horizontal limits of certain pools in Chaves, Eddy, Lea, and Roosevelt Counties, New Mexico:

(a) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Wolfcamp production and designated as the East Anderson Ranch-Wolfcamp Pool. The discovery well is Holly Energy, Inc. Pogo State Well No. 1 located in Unit H of Section 19, Township 16 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 33 EAST, NMPM  
Section 19: NE/4

(b) CREATE a new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production and designated as the Ralph Nix Union Nappy Pool. The discovery well is Ralph Nix Union Nappy Well No. 1 located in Unit O of Section 1, Township 8 South, Range 28 East, NMPM. Said pool would comprise:

TOWNSHIP 8 SOUTH, RANGE 28 EAST, NMPM  
Section 1: SE/4 and S/2 NE/4  
Section 12: NE/4

TOWNSHIP 8 SOUTH, RANGE 29 EAST, NMPM  
Section 6: W/2 SW/4  
Section 7: W/2 NW/4

(c) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for San Andres Production and designated as the Cary-San Andres Pool. The discovery well is Zia Energy, Inc. State C Well No. 1 located in Unit F of Section 17, Township 22 South, Range 37 East, NMPM. Said pool would comprise:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM  
Section 17: NW/4

(d) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Grayburg production and designated as the Diamond Mound-Grayburg Gas Pool. The discovery well is Mesa Petroleum Company Sink Federal Well No. 1 located in Unit I of Section 9, Township 16 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 27 EAST, NMPM  
Section 9: SE/4

(e) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Diamond Mound-Morrow Gas Pool. The discovery well is Mesa Petroleum Company Derrick Federal Com Well No. 1 located in Unit K of Section 5, Township 16 South, Range 28 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 28 EAST, NMPM  
Section 5: Lots 3, 4, 5, 6, 11, 12,  
13, and 14

(f) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Abo production and designated as the Gopher-Abo Gas Pool. The discovery well is Mesa Petroleum Company Catclaw State Well No. 1 located in Unit G of Section 31, Township 17 South, Range 24 East, NMPM. Said pool would comprise:

TOWNSHIP 17 SOUTH, RANGE 24 EAST, NMPM  
Section 31: NE/4

(g) CREATE a new pool in Eddy County, New Mexico, classified as an oil pool for Upper Pennsylvanian production and designated as the Grayburg-Upper Pennsylvanian Pool. The discovery well is Depco, Inc. Conoco State Well No. 1 located in Unit K of Section 15, Township 17 South, Range 29 East, NMPM. Said pool would comprise:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM  
Section 15: SW/4

(h) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Drinkard production and designated as the Hardy-Drinkard Pool. The discovery well is Amoco Production Company State C Tr. 11 Well No. 11 located in Unit X of Section 2, Township 21 South, Range 36 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM  
Section 2: SE/4  
Section 11: NE/4

(i) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Logan Draw-Atoka Gas Pool. The discovery well is Mesa Petroleum Company Haralo Federal Com Well No. 1 located in Unit L of Section 22, Township 17 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM  
Section 22: W/2

(j) CREATE a new pool in Chaves County, New Mexico, classified as an oil pool for Queen production and designated as the Rabbit Flats-Queen Pool. The discovery well is Rapid Company, Inc. Copelan State Well No. 1 located in Unit C of Section 31, Township 10 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 10 SOUTH, RANGE 27 EAST, NMPM  
Section 31: NE/4 NW/4 and N/2 NE/4

(k) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the Ross Draw-Wolfcamp Gas Pool. The discovery well is Florida Gas Exploration Company Ross Draw Unit Well No. 7 located in Unit J of Section 26, Township 26 South, Range 30 East, NMPM. Said pool would comprise:

TOWNSHIP 26 SOUTH, RANGE 30 EAST, NMPM  
Section 26: S/2  
Section 27: All

Docket No. 12-80

(1) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Sand Point-Morrow Gas Pool. The discovery well is Perry R. Bass Big Eddy Unit Well No. 72 located in Unit R of Section 3, Township 21 South, Range 28 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 28 EAST, NMPM  
Section 3: S/2

(m) CREATE a new pool in Chaves County, New Mexico, classified as a gas pool for Mississippian production and designated as the Sand Ranch-Mississippian Gas Pool. The discovery well is MGF Oil Corporation Bicar Federal Well No. 1 located in Unit G of Section 14, Township 10 South, Range 29 East, NMPM. Said pool would comprise:

TOWNSHIP 10 SOUTH, RANGE 29 EAST, NMPM  
Section 14: N/2

(n) CREATE a new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production and designated as the North Tom Tom-San Andres Pool. The discovery well is NNM Petroleum Corporation Mooney Well No. 1 located in Unit A of Section 17, Township 7 South, Range 31 East, NMPM. Said pool would comprise:

TOWNSHIP 7 SOUTH, RANGE 31 EAST, NMPM  
Section 17: NE/4

(o) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Bone Springs production and designated as the Tonto-Bone Springs Pool. The discovery well is Amoco Production Company Nellis A Federal Well No. 1 located in Unit E of Section 8, Township 19 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM  
Section 8: NW/4

(p) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Mississippian production and designated as the Townsend-Mississippian Gas Pool. The discovery well is Allen K. Trobaugh Eidson Com Well No. 1 located in Unit G of Section 28, Township 16 South, Range 35 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM  
Section 28: NE/4

(q) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Fusselman production and designated as the Wantz-Fusselman Pool. The discovery well is N. B. Hunt Mittie Weatherly Well No. 8 located in Unit G of Section 21, Township 21 South, Range 37 East, NMPM. Said pool would comprise:

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

(r) EXTEND the Airstrip-Lower Bone Springs Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM  
Section 25: NW/4

(s) EXTEND the West Arkansas Junction-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 36 EAST, NMPM  
Section 28: NW/4

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

TOWNSHIP 21 SOUTH, RANGE 26 EAST, NMPM  
Section 5: S/2

(u) EXTEND the Bar U-Pennsylvanian Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 33 EAST, NMPM  
Section 31: N/2

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

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

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

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM  
Section 11: All

- (x) EXTEND the East Caprock-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 12 SOUTH, RANGE 32 EAST, NMPM  
Section 14: SW/4  
Section 23: W/2

- (y) CONTRACT the horizontal limits of the Cato-San Andres Pool in Chaves County, New Mexico, by the deletion of the following described area:

TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMPM  
Section 5: NW/4

- and EXTEND the horizontal limits of said pool to include therein:

TOWNSHIP 8 SOUTH, RANGE 30 EAST, NMPM  
Section 4: SE/4

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

TOWNSHIP 7 SOUTH, RANGE 32 EAST, NMPM  
Section 34: NW/4

- (aa) EXTEND the Comanche Stateline Tansill-Yates Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 26 SOUTH, RANGE 36 EAST, NMPM  
Section 21: NW/4

- (bb) EXTEND the South Culebra Bluff-Bone Springs Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM  
Section 22: NE/4  
Section 23: NW/4

- (cc) EXTEND the Custer-Devonian Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 36 EAST, NMPM  
Section 25: W/2

- (dd) EXTEND the Double L-Queen Associated Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 29 EAST, NMPM  
Section 1: W/2, SW/4 NE/4 and W/2 SE/4

- (ce) EXTEND the Eagle Creek Permo-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM  
Section 3: All

- (ff) EXTEND the South Eunice-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM  
Section 10: SE/4

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

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM  
Section 26: S/2

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

TOWNSHIP 22 SOUTH, RANGE 34 EAST, NMPM  
Section 1: W/2

(ii) EXTEND the Grams Ridge-Wolfcamp Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM  
Section 36: N/2 and SE/4

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

TOWNSHIP 18 SOUTH, RANGE 38 EAST, NMPM  
Section 34: W/2

TOWNSHIP 19 SOUTH, RANGE 38 EAST, NMPM  
Section 3: NW/4

(kk) EXTEND the Jalmat Yates-Seven Rivers Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 36 EAST, NMPM  
Section 28: S/2 NW/4

(ll) EXTEND the Justis-Paddock Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 25 SOUTH, RANGE 37 EAST, NMPM  
Section 25: S/2

TOWNSHIP 25 SOUTH, RANGE 38 EAST, NMPM  
Section 30: SW/4

(mm) EXTEND the Langley-Devonian Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM  
Section 17: S/2  
Section 28: N/2

(nn) EXTEND the Langley-Ellenburger Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM  
Section 17: S/2

(oo) EXTEND the Leamex-Wolfcamp Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 33 EAST, NMPM  
Section 21: N/2 N/2

(pp) EXTEND the Logan Draw-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM  
Section 20: All  
Section 21: S/2  
Section 28: E/2  
Section 33: E/2

(qq) EXTEND the Northeast Lovington-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 37 EAST, NMPM  
Section 18: NE/4

(rr) EXTEND the Parkway-Strawn Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMPM  
Section 25: SW/4

(ss) EXTEND the West Parkway-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMPM  
Section 21: S/2  
Section 22: All

(tt) EXTEND the South Peterson-Fusselman Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 5 SOUTH, RANGE 32 EAST, NMPM  
Section 25: SE/4

(uu) EXTEND the North Quail Ridge-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM  
Section 12: E/2

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM  
Section 7: W/2

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

TOWNSHIP 20 SOUTH, RANGE 32 EAST, NMPM  
Section 25: SW/4  
Section 36: NW/4

(ww) EXTEND the Scoggin Draw-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM  
Section 3: E/2  
Section 10: E/2

(xx) EXTEND the Shugart Yates-Seven Rivers Queen-Grayburg Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM  
Section 35: N/2 NE/4

(yy) EXTEND the vertical limits of the Sioux-Yates Pool in Lea County, New Mexico, to include the Tansill formation and redesignate said pool as the Sioux Tansill-Yates Pool, and extend the horizontal limits of said pool to include therein:

TOWNSHIP 26 SOUTH, RANGE 36 EAST, NMPM  
Section 16: N/2 and SE/4

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

TOWNSHIP 7 SOUTH, RANGE 31 EAST, NMPM  
Section 25: NW/4  
Section 26: SE/4  
Section 28: SW/4

TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMPM  
Section 5: NW/4 and N/2 SW/4

(aaa) EXTEND the West Tonto-Pennsylvanian Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 12 SOUTH, RANGE 33 EAST, NMPM  
Section 18: NE/4

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

TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMPM  
Section 11: All  
Section 14: E/2

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

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NMPM  
Section 27: S/2

(ddd) EXTEND the Warren-Tubb Gas Pool in Lea County, New Mexico, to include therein:

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



(ccc) EXTEND the White Ranch-Mississippian Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 11 SOUTH, RANGE 29 EAST, NMPM  
Section 34: E/2

(fff) EXTEND the Wilson-Strawn Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM  
Section 12: SE/4  
Section 13: NE/4

BEFORE THE OIL CONSERVATION DIVISION  
DEPARTMENT OF ENERGY AND MINERALS  
STATE OF NEW MEXICO

APPLICATION BY BASS ENTERPRISES )  
PRODUCTION COMPANY TO AMEND )  
ORDER R-5693, EDDY COUNTY, )  
NEW MEXICO )

Case 6871

APPLICATION FOR HEARING

COMES NOW the undersigned as attorney on behalf of Bass Enterprises Production Company and files this Application for Hearing to be set on the docket for April 23, 1980. In connection therewith, the undersigned, on behalf of Bass Enterprises Production Company, submits the following data:

1. Name of Applicant: Bass Enterprises Production Company
2. Area Affected by the Order Sought:

Township 21 South, Range 28 East, N.M.P.M  
Eddy County, New Mexico

Section 35: SW $\frac{1}{4}$ NE $\frac{1}{4}$

The above being the location  
of the Big Eddy Unit Well No. 56  
located 1980 feet from the North  
line and 2310 feet from the East  
line of said Section 35.

3. General Nature of Order Sought: Applicant seeks to amend Order No. R-5693 (Case No. 6160) dated April 11, 1978, and remove the restriction specified in said Order relative to authority of the Order expiring two years from the date of first injection of salt water into said well, unless Applicant shall have properly cemented the Big Eddy Unit Well No. 41 located in Unit J of said Section 35 across the injection zone.

4. Other Matters to be Noted in Connection with Order Sought: Although the Applicant has not cemented the Big Eddy Unit Well No. 41 described above across the injection zone, data and information assembled by Applicant after monitoring the condition in said well indicates that there has been no adverse effect on said well by the injection of salt water into Big Eddy Unit Well No. 56 as is otherwise authorized in Order R-5693.


The well for which Applicant seeks authority to continue injection by virtue of the amendment to Order R-5693 is located in the Indian Flats Delaware Field.

Dated this 24th day of March, 1980.

Respectfully submitted,

HINKLE, COX, EATON,  
COFFIELD & HENSLEY

By:

  
Conrad E. Coffield  
Attorney for Bass Enterprises  
Production Company

BEFORE THE OIL CONSERVATION DIVISION

DEPARTMENT OF ENERGY AND MINERALS

STATE OF NEW MEXICO

APPLICATION BY BASS ENTERPRISES )  
PRODUCTION COMPANY TO AMEND )  
ORDER R-5693, EDDY COUNTY, )  
NEW MEXICO )

Case 6871

APPLICATION FOR HEARING

COMES NOW the undersigned as attorney on behalf of Bass Enterprises Production Company and files this Application for Hearing to be set on the docket for April 23, 1980. In connection therewith, the undersigned, on behalf of Bass Enterprises Production Company, submits the following data:

1. Name of Applicant: Bass Enterprises Production Company
2. Area Affected by the Order Sought:

Township 21 South, Range 28 East, N.M.P.M  
Eddy County, New Mexico

Section 35: SW $\frac{1}{4}$ NE $\frac{1}{4}$

The above being the location of the Big Eddy Unit Well No. 56 located 1980 feet from the North line and 2310 feet from the East line of said Section 35.

3. General Nature of Order Sought: Applicant seeks to amend Order No. R-5693 (Case No. 6160) dated April 11, 1978, and remove the restriction specified in said Order relative to authority of the Order expiring two years from the date of first injection of salt water into said well, unless Applicant shall have properly cemented the Big Eddy Unit Well No. 41 located in Unit J of said Section 35 across the injection zone.

4. Other Matters to be Noted in Connection with Order Sought: Although the Applicant has not cemented the Big Eddy Unit Well No. 41 described above across the injection zone, data and information assembled by Applicant after monitoring the condition in said well indicates that there has been no adverse effect on said well by the injection of salt water into Big Eddy Unit Well No. 56 as is otherwise authorized in Order R-5693.

The well for which Applicant seeks authority to continue injection by virtue of the amendment to Order R-5693 is located in the Indian Flats Delaware Field.

Dated this 24th day of March, 1980.

Respectfully submitted,

HINKLE, COX, EATON,  
COFFIELD & HENSLEY

By:

  
Conrad E. Coffield  
Attorney for Bass Enterprises  
Production Company

BEFORE THE OIL CONSERVATION DIVISION  
DEPARTMENT OF ENERGY AND MINERALS  
STATE OF NEW MEXICO

APPLICATION BY BASS ENTERPRISES )  
PRODUCTION COMPANY TO AMEND )  
ORDER R-5693, EDDY COUNTY, )  
NEW MEXICO )

Case 6871

APPLICATION FOR HEARING

COMES NOW the undersigned as attorney on behalf of Bass Enterprises Production Company and files this Application for Hearing to be set on the docket for April 23, 1980. In connection therewith, the undersigned, on behalf of Bass Enterprises Production Company, submits the following data:

1. Name of Applicant: Bass Enterprises Production Company
2. Area Affected by the Order Sought:

Township 21 South, Range 28 East, N.M.P.M  
Eddy County, New Mexico

Section 35: SW $\frac{1}{4}$ NE $\frac{1}{4}$

The above being the location  
of the Big Eddy Unit Well No. 56  
located 1980 feet from the North  
line and 2310 feet from the East  
line of said Section 35.

3. General Nature of Order Sought: Applicant seeks to amend Order No. R-5693 (Case No. 6160) dated April 11, 1978, and remove the restriction specified in said Order relative to authority of the Order expiring two years from the date of first injection of salt water into said well, unless Applicant shall have properly cemented the Big Eddy Unit Well No. 41 located in Unit J of said Section 35 across the injection zone.

4. Other Matters to be Noted in Connection with Order Sought: Although the Applicant has not cemented the Big Eddy Unit Well No. 41 described above across the injection zone, data and information assembled by Applicant after monitoring the condition in said well indicates that there has been no adverse effect on said well by the injection of salt water into Big Eddy Unit Well No. 56 as is otherwise authorized in Order R-5693.

The well for which Applicant seeks authority to continue injection by virtue of the amendment to Order R-5693 is located in the Indian Flats Delaware Field.

Dated this 24th day of March, 1980.

Respectfully submitted,

HINKLE, COX, EATON,  
COFFIELD & HENSLEY

By:

  
Conrad E. Coffield  
Attorney for Bass Enterprises  
Production Company

77  
Bass Enterprises Production Co.

~~Extension of prior order for SWD~~

Big Eddy Unit # 56

R-5693

amend order NO. R-5693 to remove  
the restriction as to the time limit  
~~within~~ in which salt water  
may be disposed into Big Eddy  
Unit Well No. 56 located in Unit  
G of Section 35, T21S, R28E, Eddy  
Co.

Conrad Coffield  
2:15 pm 3/28

ROUGH

dr/

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. 6871

Order No. R 5693-17

APPLICATION OF BASS ENTERPRISES  
PRODUCTION COMPANY TO AMEND ORDER  
NO. R-5693, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on April 23  
19 80, at Santa Fe, New Mexico, before Examiner Richard L. Stamets

NOW, on this \_\_\_\_\_ day of \_\_\_\_\_, 19 80, 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, Bass Enterprises Production Company,  
seeks to amend Order No. R-5693 to remove the restriction as to the  
time limit in which salt water may be disposed into Big Eddy Unit

Well No. 56 located in Unit G of Section 35, Township 21 South, Range 28 East.

(3) That in its Order No. R-5693 the Division made the following findings relative to one of the applicant's producing wells located within one-half mile of the subject salt water disposal well:

"(8) That the applicant's Big Eddy Unit Well No. 41 located in Unit J of said Section 35 is located within one-half mile of the proposed injection well and is not cemented opposite the disposal zone.

"(9) That said Big Eddy Unit Well No. 41 could serve as an avenue of escape for injected waters from the disposal zone to other zones.

"(10) That to prevent said migration of injected waters into zones other than the disposal zone the applicant should periodically monitor the 8 5/8-inch x 5 1/2-inch casing annulus for detection of injected fluid and, upon such detection, immediately cease injection or repair said Big Eddy Unit Well No. 41.

"(11) That in no event should injection into said well continue for a period in excess of two years unless said Big Eddy Unit Well No. 41 shall have been cemented across the injection zone."

(4) That the applicant has conducted numerous tests on said Big Eddy Unit Well No. 41 none of which indicated any movement of water up-hole or down-hole nor significant pressure in the 8 5/8-inch x 5 1/2-inch casing-casing annulus.

(5) That the producing zone in said Big Eddy Unit Well No. 41 could be damaged and production irretrievably lost during workover operations required to accomplish ~~the~~ <sup>corrective</sup> proposed cementing opposite said ~~injection~~ <sup>disposal</sup> interval.

(6) That said irretrievable loss of production, in the absence of any demonstration of fluid movement opposite the ~~injection~~ <sup>disposal</sup> interval, is unnecessary waste and should be avoided.

(7) That the requirement for the recementing of applicant's Big Eddy Unit Well No. 41 should be indefinitely suspended pending tests demonstrating fluid movement behind the casing opposite the ~~injection~~ <sup>disposal</sup> zone or recompletion of the well in a new zone, ~~whichever comes first.~~

(8) That the applicant should continue to conduct the periodic well tests set out in said Order No. R-5693 as well as annual temperature and noise log surveys across the ~~injection~~ <sup>disposal</sup> interval in said Big Eddy Unit Well No. 41.

(9) That the applicant should notify the supervisor of the Division's district office at Artesia of the date and time of such annual tests in order that the Division, at its option, may witness such tests.

(10) Copies of the annual temperature and noise surveys should be filed with the Division not later than 30 days following completion of the tests.

IT IS THEREFORE ORDERED:



(1) That that provision of Order (1) of Division Order No. R-5693 entered April 11, 1978, requiring the cementing of The Bass Enterprises Production Company Big Eddy Unit Well No. 41 located in Unit J of Section 35, Township 21 South, Range 28 East, NMPM, opposite the ~~injection~~<sup>disposal</sup> interval authorized by said Order No. R-5693, is hereby suspended indefinitely.

(2) That the operator of said Big Eddy Unit Well No. 41 shall continue to conduct the periodic well tests set out in said Order No. R-5693 and shall further conduct an annual temperature and noise log survey across the ~~injection~~<sup>disposal</sup> interval.

(3) That the operator shall notify the supervisor of the Division's district office at Artesia of the date and time of such annual tests in order that the Division, at its option, may witness such tests.

(4) Copies of the annual temperature and noise surveys shall be filed with the Division not later than 30 days following completion of the tests.

(5) That should any of the tests required under provisions of this Order or Order No. R-5693 demonstrate fluid movement behind the casing opposite the ~~injection~~<sup>disposal</sup> interval or should said Big Eddy Unit Well No. 41 be worked over or recompleted the operator thereof shall proceed immediately to properly cement said casing below and across said zone.

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

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

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
STATE LAND OFFICE BLDG.  
SANTA FE, NEW MEXICO  
23 April 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Bass Enterprises ) CASE  
Production Company to amend Order ) 6871  
No. R-5693, Eddy County, 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:

Ernest L. Padilla, Esq.  
Legal Counsel to the Division  
State Land Office Bldg.  
Santa Fe, New Mexico 87501

For the Applicant:

Conrad E. Coffield, Esq.  
HINKLE LAW FIRM  
P. O. Box 3580  
Midland, Texas 79701

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I N D E X

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JOHN D. RODGERS

Direct Examination by Mr. Coffield 3

Cross Examination by Mr. Stamets 12

E X H I B I T S

Applicant Exhibit One, Plat 5

Applicant Exhibit Two, Summary 5

Applicant Exhibit Three, Diagrams 5

Applicant Exhibit Four, Logs 7

Applicant Exhibit Five, Cross Section 7

Applicant Exhibit Six, Document 7

Applicant Exhibit Seven, Document 7

Applicant Exhibit Eight, Graph 9

Applicant Exhibit Nine, History 15

Applicant Exhibit Ten, List

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Page 3

1 MR. STAMETS: We'll call next Case Number  
2 6871.

3 MR. PADILLA: Application of Bass Enter-  
4 prises Production Company to amend Order Number R-5693, Eddy  
5 County, New Mexico.

6 MR. COFFIELD: Conrad Coffield with the  
7 Hinkle Law Firm of Midland, Texas, appearing on behalf of  
8 the applicant. I have one witness to be sworn at this time.

9  
10 (Witness sworn.)

11  
12 JOHN D. RODGERS  
13 being called as a witness and having been duly sworn upon  
14 his oath, testified as follows, to-wit:

15  
16 DIRECT EXAMINATION

17 BY MR. COFFIELD:

18 Q Mr. Rodgers, for the record would you  
19 please state your name, address, occupation, and employer?

20 A Yes, sir. My name is John D. Rodgers.

21 I'm a Senior Production Engineer with Bass Enterprises Pro-  
22 duction Company, who is the agent that operates the Big Eddy  
23 Unit for Perry R. Bass, the designated operator of the Big  
24 Eddy Unit. Our address is P. O. Box 2760, Midland, Texas.

25 Q Mr. Rodgers, have you previously testified

1 before the Division as a petroleum engineer?

2 A Yes, sir, I have.

3 Q Were your qualifications made a matter of  
4 record and were they accepted by the Division?

5 A Yes, sir, they were.

6 Q Are you familiar with Bass' application  
7 in this case?

8 A Yes, sir, I am.

9 Q And likewise are you familiar with the  
10 property involved and the well?

11 A Yes, sir.

12 MR. COFFIELD: Mr Examiner, do you have  
13 any other questions of this witness?

14 MR. STAMETS: The witness is considered  
15 qualified.

16 Q Mr. Rodgers, would you please state what  
17 it is that Bass Enterprises Production Company seeks by this  
18 application?

19 A Bass Enterprises Production Company seeks  
20 to amend Order No. R-5693 to remove the restriction as to the  
21 time limit in which salt water may be disposed into the Big  
22 Eddy Unit Well No. 56, located in Unit G, Section 35, Town-  
23 ship 21 South, Range 28 East.

24 Q All right, Mr. Rodgers, would you please  
25 refer to what we've marked as Exhibits One, Two, and Three,

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1 A through H, and explain each of those for the Examiner?

2 A Yes, sir. Exhibit Number One is a land  
3 plat centered around Big Eddy Unit Well No. 56, the salt water  
4 disposal well.

5 The acreage that is colored in yellow is  
6 that acreage that Perry R. Bass operates as part of the Big  
7 Eddy Unit. The Big Eddy Number 56 is designated on the map  
8 by the purple arrow.

9 The 1/2 mile and 2 mile radii markers  
10 from Big Eddy Unit No. 56 are shown on the map also.

11 Bass Enterprises puts water into Big  
12 Eddy Unit No. 56. Order No. 5693 that was issued April of  
13 1978 showed concern for the Big Eddy Unit No. 41 where the  
14 casing on this well is exposed to the zone of injection.  
15 The Big Eddy Unit 41 is shown on the map by the orange arrow  
16 and is located approximately 1/4 mile from Big Eddy Unit No.  
17 56.

18 Some other items shown on this map are  
19 wells producing from the Delaware formation in green; the  
20 Atoka formation is shown in blue, or by the blue dot; and the  
21 Morrow formation is shown by the red dots.

22 The well designated by the green dot and  
23 red circle, Big Eddy Unit No. 62, is the new producing well  
24 that has been drilled since the April, 1978, Order R-5693  
25 was given to Bass.

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One other well has been drilled, which is just west of Big Eddy Unit 62. This is Big Eddy Unit No. 63. The well has been plugged and abandoned.

Exhibit Number Two is a tabular summary of the seven wells, excluding Big Eddy Unit No. 56, that are in the Section 35. Review of this exhibit shows that Big Eddy Unit No. 41 is the only well to have casing exposed to the zone of injection of Big Eddy Unit No. 56.

The wells that have been plugged and abandoned have this zone of injection between cement plugs.

MR. STAMETS: To refresh my memory, what is the injection interval for the 56?

A. The injection interval is above the Delaware Field. It is above the Delaware Field at approximately 3300 to 3400.

MR. STAMETS: The Delaware zone but not the --

A. It's a Delaware zone, yes, sir.

Exhibits Nos. Three, A through H, are schematic diagrams of Big Eddy Unit No. 56 and the seven other wells that are in Section 35, and once again, review of these exhibits shows that Big Eddy Unit No. 41 is the only producing well that has casing exposed to the correlative zone of injection of Big Eddy 56.

Q. Refer to what we've marked now as Exhibits

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1 Four, Four-A, and Five, and discuss those exhibits, please,  
2 Mr. Rodgers.

3 A Exhibit Number Four is a borehole compen-  
4 sated sonic log and Exhibit Number Four-A is the dual laterolog  
5 micro SFL.

6 The zone marked at approximately 3600  
7 feet on the log is the Delaware Field that is productive in  
8 this area.

9 The zone shown in blue on the log is the  
10 zone of injection of Big Eddy Unit Well No. 56. There is a  
11 cast iron bridge plug set between these two zones and it is  
12 capped with approximately 10 feet of hydromite.

13 Exhibit Number Five is a structural  
14 cross section of this Delaware Field and once again shown  
15 in blue on this structural cross section is the zone of in-  
16 jection of Big Eddy 56, and shown in green is the Delaware  
17 productive interval.

18 Q Do you have any other comments on that  
19 exhibit?

20 A No, sir.

21 Q Let's go on, then, to what we've marked  
22 as Exhibits Six, Seven, and Eight, and please discuss these  
23 three exhibits.

24 A Exhibit Number Six details the current  
25 sources of fluid that Bass Enterprises injects into Big Eddy



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1 Unit Well No. 56. These sources of fluid are shown on the  
2 exhibit as coming from Big Eddy Unit wells and this exhibit  
3 shows their well numbers.

4 Also shown on the exhibit are the future  
5 sources of produced salt water that Bass will inject into  
6 Big Eddy Unit 56 when that time comes. These include all  
7 future Big Eddy Unit wells with a possibility of a Yates  
8 Petroleum Well located in Section 27 to the northwest of  
9 Big Eddy Unit 56 that is located in Section 35.

10 Exhibit Number Seven is the results of  
11 a water sample obtained on the disposal water that Bass in-  
12 jects into the subject well. These waters are from the Mor-  
13 row, the Atoka, and the Delaware formations. The results  
14 show that these waters do have a scaling tendency. This  
15 leads us into Exhibit Number Eight, which is a graph of pres-  
16 sure and monthly volumes of injection of water versus time  
17 for Big Eddy Unit No. 56. Both curves are on a logarithmic  
18 scale. The monthly injection rate is shown in blue and the  
19 pressure is shown in red.

20 Also shown on this graph is the limiting  
21 pressure of 662 psig, as defined in the order No. R-5693.  
22 The pressures shown on this curve are the monthly average  
23 pressure that BEPCO has been reporting to the Oil Conservation  
24 Division monthly.

25 This curve also shows the date that

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1 Bass began putting water into the Big Eddy Unit No. 56 and  
2 also the stimulations that have been performed on this well  
3 to keep our pressures below this limiting pressure.

4 The pressure of 480 psig, shown March,  
5 1980, is the current pressure after the last stimulation job  
6 that Bass has performed on the well.

7 It might be noted here that the cumulative  
8 injection into Big Eddy Unit No. 56 has been 67,000 barrels  
9 of salt water, approximately, during the 22 months that the  
10 well has been having water injected into it.

11 Q Refer to what we've marked now as Exhibit  
12 Nine and describe this exhibit, if you would, for the Examiner.

13 A Exhibit Number Nine is the production  
14 history of Big Eddy Unit No. 41. This graph is of oil, water,  
15 and gas production by month since the well began production  
16 in January of 1976.

17 The scales for the oil and water are from  
18 10 barrels of fluid a month to 10,000 barrels of fluid pro-  
19 duction per month. Oil is shown in green and water, in blue.

20 The scale for the gas is shown from 100  
21 Mcf a month and goes up to 100,000 Mcf per month, and this  
22 is defined by the red curve.

23 January of 1966 Big Eddy Unit No. 41 be-  
24 gan producing from the Morrow formation. The well approached  
25 the limit by March of 1977. Bass attempted stimulation to

1 regain production but was not successful.

2 In December of 1977 Bass recompleted the  
3 well to the Atoka, which is the current production interval  
4 of the well, and currently the Atoka is producing approximately  
5 210,000 Mcf per month.

6 In March of 1980 Bass installed compres-  
7 sion on Big Eddy Unit No. 41 and we have noticed that com-  
8 pression on this well has kept the production up. As you  
9 can see, we had a rapid decline of production.

10 Q Mr. Rodgers, what adverse effect, if any,  
11 have you noticed in connection with Well No. 41 relative to  
12 the injection procedures that you've been following here?

13 A There have been no adverse effects on  
14 Big Eddy Unit No. 41.

15 Q All right, Mr. Rodgers, how long would  
16 you propose that the Division extend Bass' authority to con-  
17 tinue the disposal of salt water into Big Eddy 56?

18 A Bass Enterprises asks that the order be  
19 extended until such evidence of damage has occurred in Big  
20 Eddy Unit No. 41.

21 Q With that in mind, then, would you pro-  
22 pose that Bass continue to routinely monitor Well No. 41 and  
23 report to the -- to the Division?

24 A Yes, sir, we would.

25 Q As you're well aware, Mr. Rodgers, one

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1 of the provisos in Order No. R-5693 specifies that the  
2 authority granted by that order to inject in the Big Eddy  
3 Well 56 is to expire ipso facto two years from the date of  
4 first injection unless the operator properly cements Big Eddy  
5 No. 41 across the injection zone. If Bass' application in  
6 this case is denied, what will be the result?

7 A There are two results. Bass does not feel  
8 that we could jeopardize the Atoka interval that is producing  
9 approximately 750 Mcf per day and which we have installed  
10 compression on to cement this zone of injection in Big Eddy  
11 Unit 41. Also, the operating expenses would go up signifi-  
12 cantly if Bass to find a disposal well nearby and truck water  
13 to that well, and this could result -- or this will result  
14 in a higher limit for the producing wells and we could leave  
15 oil in the ground.

16 Q So it could result, then, in inability  
17 to produce hydrocarbons?

18 A Yes, sir, it could.

19 Q Were these Exhibits One through Nine  
20 prepared by you or under your supervision?

21 A Yes, sir, they were.

22 Q In your opinion will the approval of  
23 Bass' application in this case be in the interest of conser-  
24 vation and the protection of correlative rights and prevention  
25 of waste?

1 A Yes, sir.

2 MR COFFIELD: Mr. Examiner, I move the  
3 admission of Exhibits One through Nine.

4 MR. STAMETS: These exhibits will be ad-  
5 mitted.

6 MR. COFFIELD: And I have no further  
7 questions of Mr. Rodgers on direct examination.

8  
9 CROSS EXAMINATION

10 BY MR. STAMETS:

11 Q Has Bass monitored the annulus in this  
12 Well No. 41?

13 A Yes, sir. Bass monitors annulus of 41  
14 weekly and reports these pressures to us, which is where we  
15 get our pressures to report to the Oil Conservation Division.

16 Q The annulus I'm referring to is the  
17 casing/casing annulus between the 11-3/4 and the 5-1/2 casing.

18 A Yes, sir.

19 Q What is the result of that monitoring?

20 A The pressures in Big Eddy Unit No. 41  
21 have -- on the casing annulus have remained low, and as wit-  
22 nessed by the State authorities quarterly, they have found  
23 this also.

24 Q You didn't supply us with a tabulation  
25 of those pressures here today. Is there any reason for that?

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1 A We can supply that pressure.

2 Q I certainly think that should be done.

3 How much longer do you anticipate the Atoka zone is going to  
4 keep producing in the Big Eddy Well No. 41?

5 A The decline rate that was witnessed with-  
6 out compression was a steep decline.

7 Now with compression, we have just in-  
8 stalled compression, and we book our Atoka reserves for this  
9 well based upon approximately 2 billion cubic feet of gas.  
10 I do not know the current recovery at this date.

11 Q Just a rough calculation would seem to  
12 indicate that perhaps maybe half of that has been produced  
13 by this time. Would that indicate -- if that were a correct  
14 figure, would that indicate to you that perhaps you had two  
15 more years of life left on this well?

16 A With compression we have decreased the  
17 decline rate, so I would estimate we'd have longer than two  
18 years production.

19 Q Okay. Would it be possible to work Well  
20 No. 41 over without getting fluid on the Atoka perforations?

21 A May I find out that answer? I'm not  
22 sure.

23 MR. STAMETS: Certainly.

24 A Mr. Examiner, we have a retrievable  
25 packer in the hole, so we could not set a plug in this packer.

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1 so fluid -- we would have to get fluid on the formation to  
2 work this well over.

3 Q The well was producing from the Atoka  
4 before the original hearing on Well NO. 56?

5 A Yes, sir, it was.

6 Also at this time, Mr. Examiner, we do  
7 have the casing annulus pressures of Big Eddy Unit 41, if  
8 we can supply them.

9 Q You have those here at this time?

10 A Yes, sir, we do.

11 Q I'd like to take a look at those.

12 MR. COFFIELD: Would you like them offered  
13 as an exhibit?

14 MR. STAMETS: Probably. Let me scan them  
15 first.

16 This summary indicates, then, that since  
17 July of 1978 we've had zero pressure on the annulus, is that  
18 correct?

19 A Yes, sir, that is correct. We monitor  
20 the pressure weekly and just occasionally the pressure will  
21 build up, at which time the pumper will open the valve and  
22 bleed just a slight amount of gas.

23 Q What's in the annular space on this well?

24 Is it loaded with mud?

25 A Should be drilling fluid mud, yes, sir.

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1 From where the cement did not displace.

2 Q Would Bass be agreeable to continuance of  
3 monitoring and a possible requirement for working the well  
4 over in case significant pressure buildup occurs in the an-  
5 nulus of Well No. 41?

6 A Yes, sir, we would be.

7 MR. STAMETS: Are there other questions  
8 of this witness? He may be excused.

9 Anything further in this case?

10 MR. COFFIELD: No, sir.

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

13 MR. COFFIELD: Mr. Examiner, I would  
14 offer Exhibit Ten into evidence.

15 MR. STAMETS: Exhibit Ten will be ad-  
16 mitted.

17 And if there is nothing further, the  
18 case will be taken under advisement. And in this case the  
19 Examiner will be referring to the transcript in the original  
20 hearing and such evidence as may be obtained from Division  
21 files on the wells involved and the injection involved.

22 The case will be taken under advisement.

23  
24 (Hearing concluded.)

25

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REPORTER'S CERTIFICATE

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.

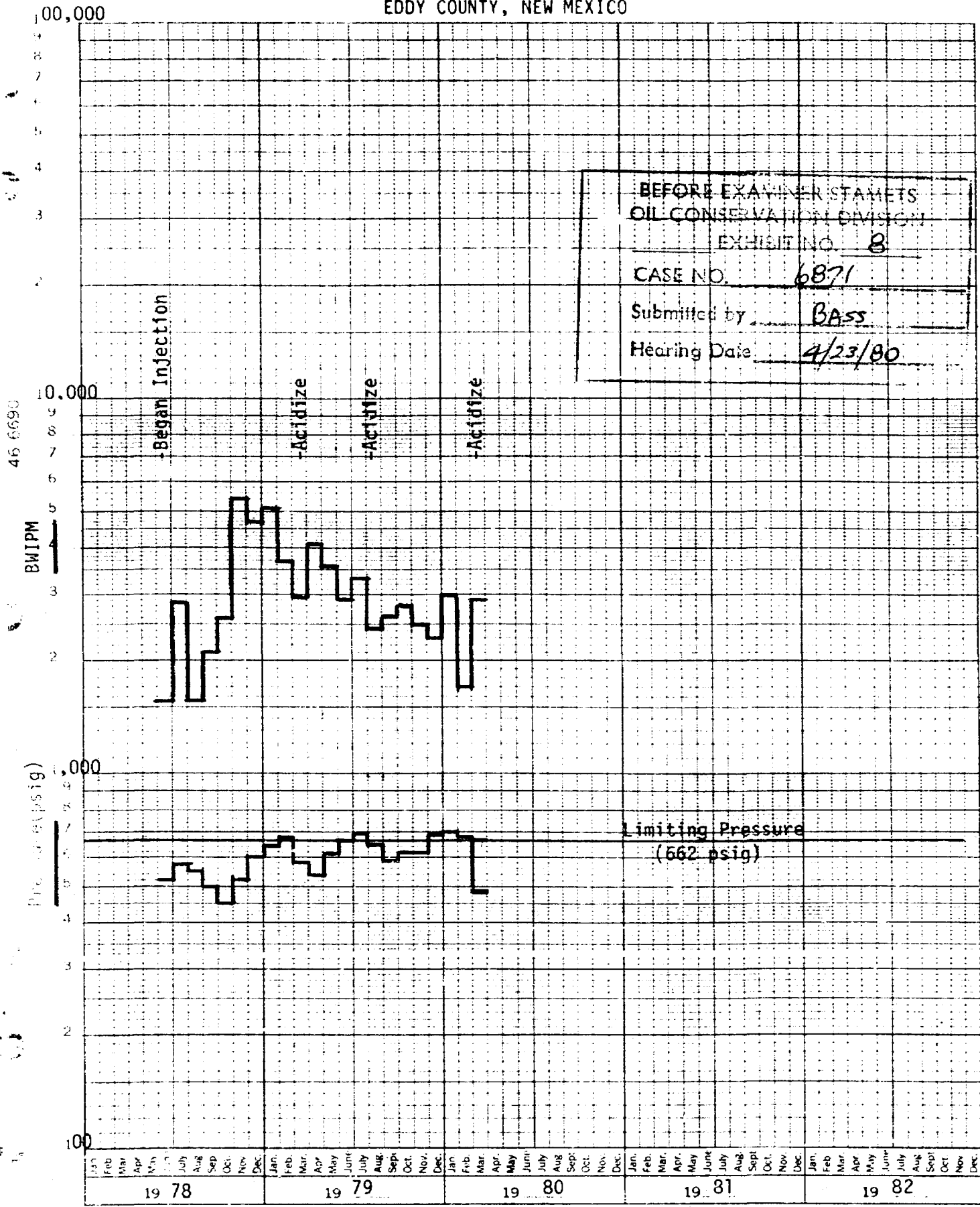
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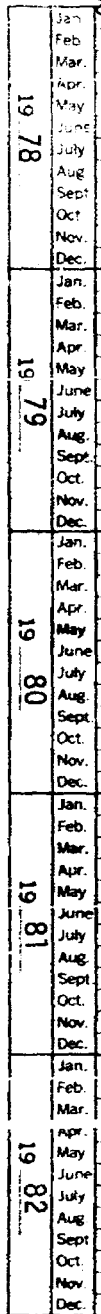
I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 19 heard by me on                     .

                                    , Examiner  
Oil Conservation Division

BIG EDDY UNIT NO. 56  
INDIAN FLATS FIELD  
EDDY COUNTY, NEW MEXICO



100,000



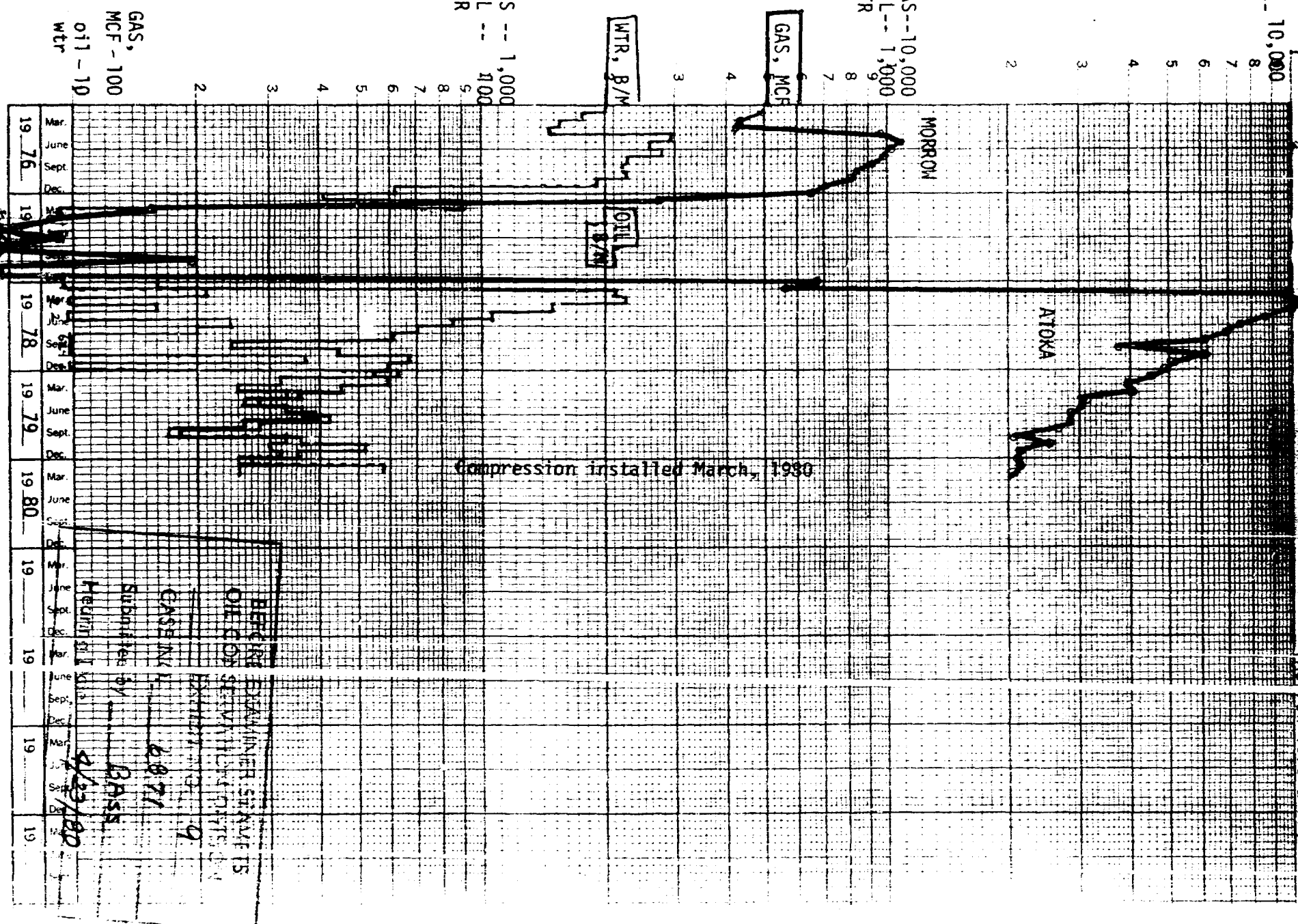
GAS -- 100,000  
OIL -- 10,000  
WTR

47 6843

GAS -- 10,000  
OIL -- 1,000  
WTR

GAS -- 1,000  
OIL -- 100  
WTR

20 YEARS BY MONTHS X 3 LOG CYCLES  
KEUFFEL & ESSER CO. MADE IN U.S.A.



INDIAN FLATS (ATOKA)  
EIG EDDY NO. 41  
(MO) POW 1976 & 77)

GAS, MCF - 100  
OIL - 10  
WTR

BERNARD STANLEY STRAUFIS  
OIL CO.  
GAS IN L. 6,071  
Substituted by BAS  
4/23/80

GAS -- 100,000  
OIL -- 10,000  
WTR --

INDIAN FLATS (ATOKA)  
BIG EDDY NO. 41  
(Morrow 1976 & 77)

47 6843

GAS--10,000  
OIL-- 1,000  
WTR

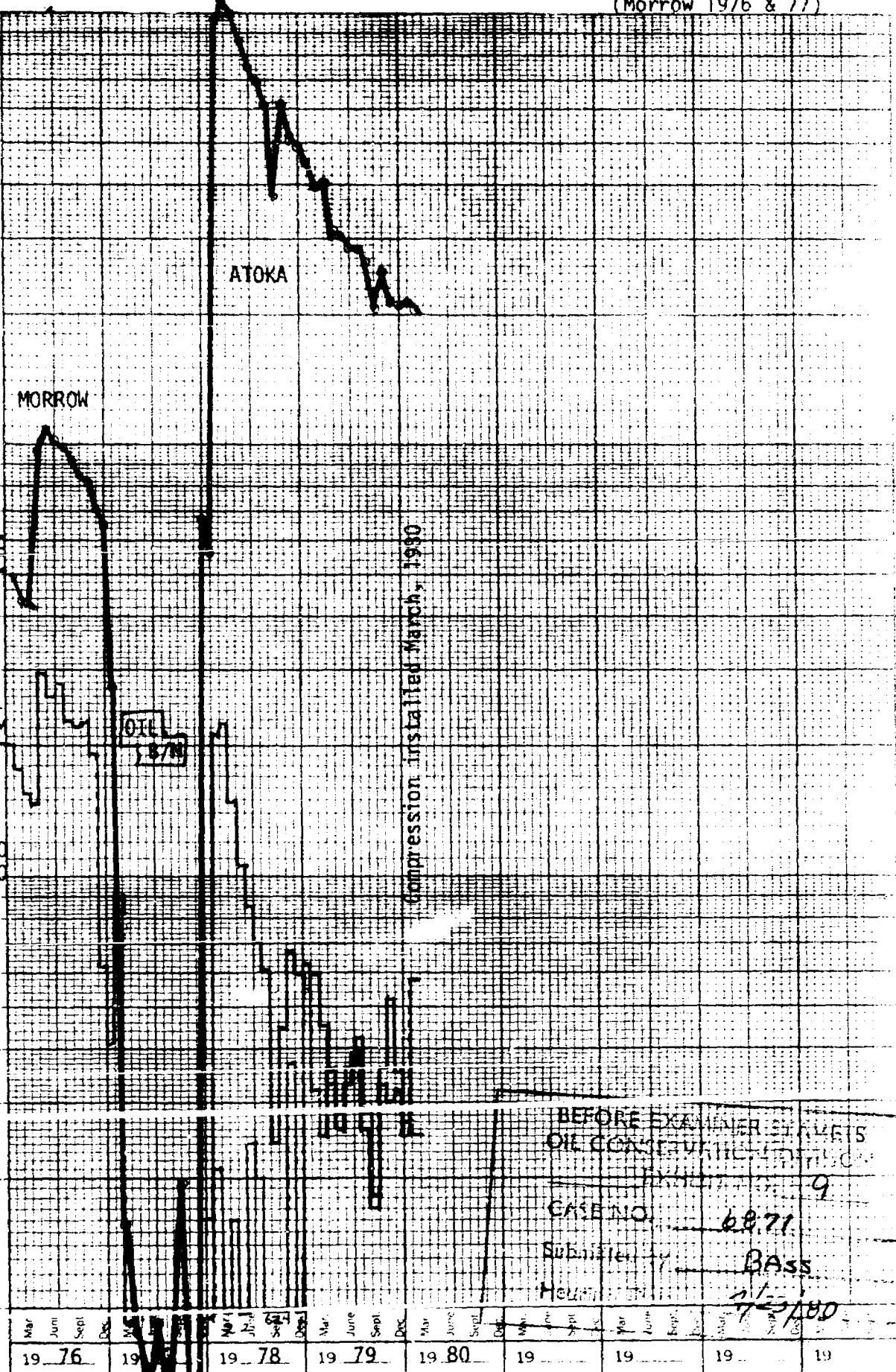
GAS, MCF

WTR, B/M

GAS -- 1,000  
OIL -- 100  
WTR

20 YEARS BY MONTHS X 3 LOG CYCLES  
KEUFFEL & ESSER CO. MADE IN U.S.A.

GAS, MCF - 100  
oil - 10  
wtr



BEFORE EXAMINER'S  
OIL COMPLETION REPORT  
CASE NO. 6871  
Submitted by Bass  
Houma 7/5/80

BIG EDDY UNIT NO. 41  
INDIAN FLATS (ATOKA FIELD)  
EDDY COUNTY, NEW MEXICO

CASING ANNULUS PRESSURES

BEFORE LITH. IN. TARGETS  
OIL CON. DIVISION

WELL NO. 10

CASE NO. 6871

Submitted by Roca

Hearing Date Average Pressure 4/23/80

Week Ending	Average Pressure (psig)	Week Ending	Average Pressure (psig)
6-17-78	89	5-19-79	0
6-24-78	95	5-26-79	0
7-01-78	96	6-02-79	0
7-08-78	94	6-09-79	0
7-15-78	0	6-16-79	0
7-22-78	0	6-23-79	0
7-29-78	0	6-30-79	0
8-05-78	0	7-07-79	0
8-12-78	0	7-14-79	0
8-19-78	0	7-21-79	0
8-26-78	0	7-28-79	0
9-02-78	0	8-04-79	0
9-09-78	0	8-11-79	0
9-16-78	0	8-18-79	0
9-23-78	0	8-25-79	0
9-30-78	0	9-01-79	0
10-07-78	0	9-08-79	0
10-14-78	0	9-15-79	0
10-21-78	0	9-22-79	0
10-28-79	0	9-29-79	0
11-04-78	0	10-06-79	0
11-11-78	0	10-13-79	0
11-18-78	0	10-20-79	0
11-25-78	0	10-27-79	0
12-02-78	0	11-03-79	0
12-09-78	0	11-10-79	0
12-16-78	0	11-17-79	0
12-23-78	0	11-24-79	0
12-30-79	0	12-01-79	0
1-06-79	0	12-08-79	0
1-13-79	0	12-15-79	0
1-20-79	0	12-22-79	0
1-27-79	0	12-29-79	0
2-03-79	0	1-05-80	0
2-10-79	0	1-12-80	0
2-17-79	0	1-19-80	0
2-24-79	0	1-26-80	0
3-03-79	0	2-02-80	0
3-10-79	0	2-09-80	0
3-17-79	0	2-16-80	0
3-24-79	0	2-23-80	0
3-31-79	0	3-01-80	0
4-07-79	0	3-08-80	0
4-14-79	0	3-15-80	0
4-21-79	0	3-22-80	0
4-28-79	0	3-29-80	0
5-05-79	0	4-05-80	0
5-12-79	0		

BIG EDDY UNIT NO. 56  
EDDY CO., NEW MEXICO

NAME AND LOCATION OF INJECTION WELL:

Big Eddy Unit No. 56  
1980' FNL & 2310' FEL of  
Section 35, T-21S, R-28E  
Unit Letter - G  
Eddy County, New Mexico

NAME AND DEPTH OF ZONE:

Delaware Sand  
Injection Interval: 3310'-3375'

KIND OF FLUID INJECTED:

Produced saltwater  
Volume Injected: Approximately 3000 BWIPM

CURRENT SOURCE OF FLUID:

BEU NO. 8  
BEU NO. 10  
BEU NO. 38  
BEU NO. 39  
BEU NO. 41  
BEU NO. 44  
BEU NO. 47  
BEU NO. 49  
BEU NO. 53  
BEU NO. 54  
BEU NO. 58  
BEU NO. 62  
BEU NO. 65  
BEU NO. 66  
BEU NO. 68  
BEU NO. 72  
RFU NO. 73  
BEU NO. 76

FUTURE SOURCES OF FLUID:

All Future Big Eddy Unit Wells  
Yates Petroleum Well (Federal "GN" No. 1)

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

EXHIBIT NO. 6

CASE NO. 6871

Submitted by BASS

Hearing Date 4/23/80



4/22/80

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

SALT WATER DISPOSAL WELL  
BIG EDDY UNIT NO. 56  
INDIAN FLATS FIELD  
EDDY COUNTY, NEW MEXICO

EXHIBIT NO. 3A

CASE NO. 6871

Submitted by BASS

Hearing Date 4/23/80

Located: 1980 FNL & 23 0 FEL of  
Sec. 35, T-21-N, R-28-E

ELEVATION: 3186 GL  
3197 KB

45A Baker Model AD-1  
Tension Packer set @ 3227'

414' 8 5/8" OD, 24#, K-55 ST&C casing  
cmt'd w/500 sx Class "C" w/2 1/2 cu yds  
and 4 cubic yards Redimix

Top of Cement @ 2000'

2 3/8" OD, EUE, 8rd thrd, 4.70"  
J-55 IPC tubing set @ 3227'

6/13/78 Delaware Perfs  
3310-3330' (40 shots)

3350-3375' (50 shots)

PBTD @ 3440'  
CIBP @ 3450' w/10' Hydromite  
on top (6/12/80)

Perfs 3593'-3598'

3650' PBTD

3702' 5 1/2" OD, 15.5#, K-55, ST&C  
and LT&C casing cmt'd w/540 sx  
50-50 Poz-Mix w/6% salt and  
5% CFR-2

TD 3800'



SDS 4/22/80

WELL STATUS  
BIG EDDY UNIT NO. 41  
EDDY COUNTY, NEW MEXICO

Elev: 3198' KB  
3180' GL

Spud: 8-18-74  
Comp: 11-8-74

LOCATED: 1980' FSL & FEL  
Sec. 35, T21S, R28E

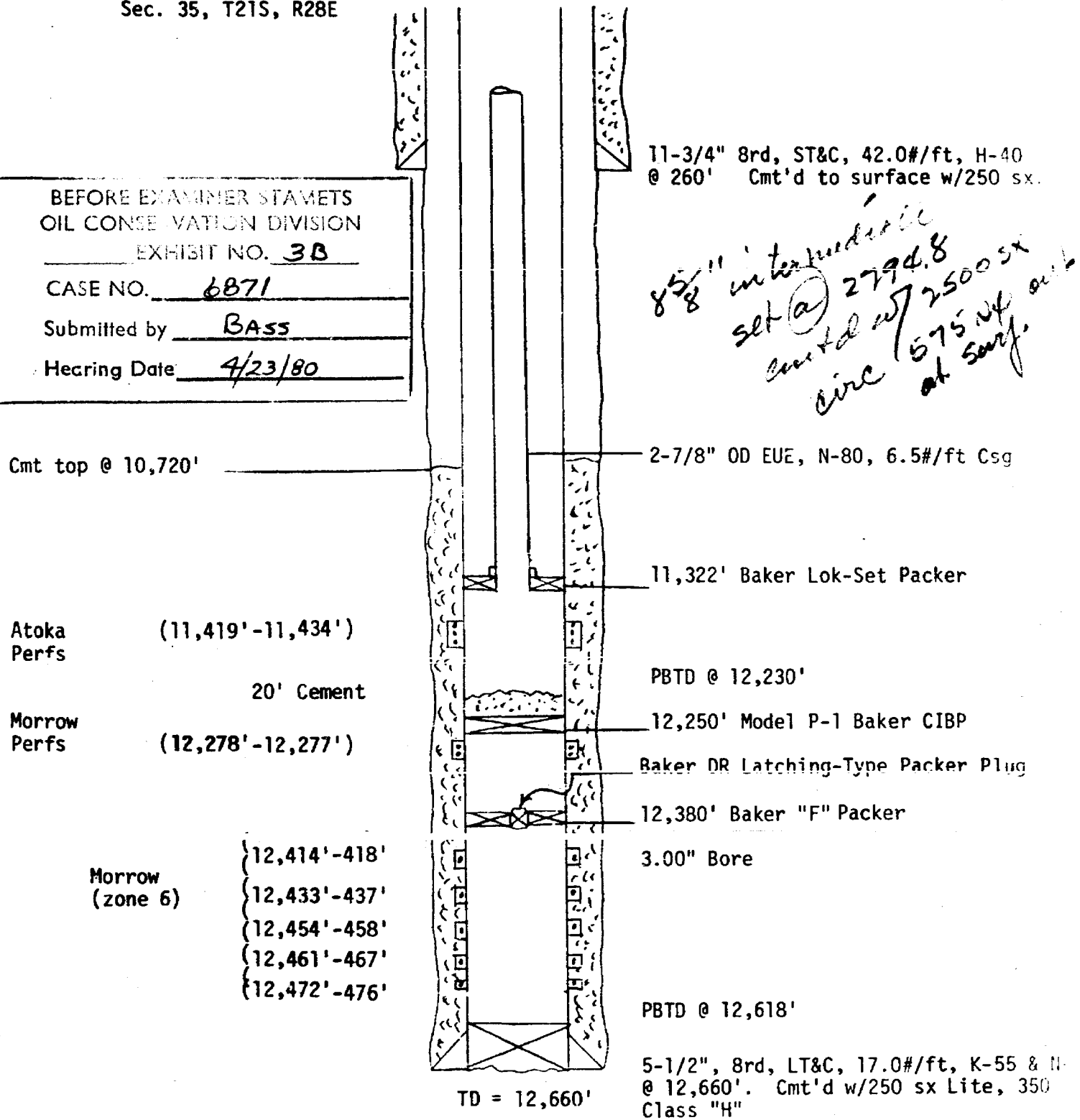
BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

EXHIBIT NO. 3B

CASE NO. 6871

Submitted by BASS

Hearing Date 4/23/80



SDS 4/22/80

WELL STATUS  
BIG EDDY UNIT NO. 47  
INDIAN FLATS DELAWARE  
EDDY COUNTY, NEW MEXICO

Elev: 3178' GL  
3190' KB

Location: 1980' FNL & FWL  
Sec. 35, T21S,  
R28E

Spud 3-8-79  
Comp. 2-3-76

305' - 8-5/8", 24#/ft, K-55, ST&C  
Cmt'd w/200 sx Class "C"

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

EXHIBIT NO. 3C

CASE NO. 6871

Submitted by BASS

Hearing Date 4/23/80

Calculated Top of Cement @ 2200'

2-3/8" O.D., 8rd, 4.7#/ft,  
J-55 Tubing

3-31-76 Delaware Perfs

3548'-57' (18 shots) Frac'd w/9000  
gal oil & 11,500# 20-40 sand

PSN @ 3573'

BP&C 3600'

Sand Fill @ 37248'  
PBD @ 3751'

3794 - 5-1/2", 15.50#, K-55, LT&C  
Csg, Cmt'd w/616 sx Class "C"

TD 3794'

SDS 4/22/80

WELL STATUS  
BIG EDDY UNIT NO. 49  
INDIAN FLATS (DELAWARE) FIELD  
EDDY COUNTY, NEW MEXICO

ELEV: KB 3174'  
GL 3163'

LOCATION: 330' FWL, 1650'  
FSL, SEC. 35,  
T-21-S, R-28-E

SPUD: 7-25-76  
COMP: 8-18-76

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION  
EXHIBIT NO. 3D

CASE NO. 6871

Submitted by BASS

Hearing Date 4/23/80

324' 8 5/8", 24#, K-55, ST&C CSG,  
CMT'D W/250 SXS CLASS "C"

2550' CALC TOP OF CEMENT

2 3/8" OD 4.7#/FT, J-55  
TBG.

10-19-77 DELAWARE PERFS @  
3529'-38' (22 SHOTS) FRC'D  
W/10,000 GAL OIL & 10,500 LBS  
10-20 SAND.

8-17-76 DELAWARE PERFS @  
3665'-77' (45 SHOTS) FRC'D  
W/10,000 GAL OIL & 15,500 LBS  
20-40 SAND.

PBTD @ 3736'

5 1/2" 15.50#, K-55, IT&C CSG,  
CMT'D W/350 SX CLASS "C"

3808'

TD 3808'

SH @ 3684'  
PERF SUB @ 3687'  
BP&C @ 3696'

WELL STATUS  
BIG EDDY UNIT NO. 58  
EDDY COUNTY, NEW MEXICO

4-22-80 SDS

ELEV: KB 3184.5  
GL 3171.5

SPUD: 1-19-78  
COMP: 2-18-78

LOCATION: 1650' FWL, 2310'  
FSL, SEC. 35,  
T-21-S, R-28-E

8 5/8", OD CSG, CMT'D  
W/300 SX CLASS "C"

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

EXHIBIT NO. 3E

CASE NO. 6871

Submitted by BASS

Hearing Date 4/23/80

2800' CALC TOP OF CEMENT

2 3/8" OD. 4.7#/FT. 8rd,  
J-55 TBG.

2-16-78 DELAWARE PERFS @  
3544'-53' FRAC'D W/11,000  
GAL OIL & 1000# 20-40 SD,  
9500# 70-20 SD

SN @ 3587'

3590' PERF SUB  
3623' BP & C

3822.96 5 1/2" OD CSG CMT'D  
W/450 SX 50-50 POZMIX "A"

TD 3820

SDS 4/22/80

BIG EDDY UNIT NO. 59  
INDIAN FLATS FIELD  
EDDY COUNTY, NEW MEXICO

ELEV: RKB 3197'  
GL 3183'

LOCATION: 1650' FWL, 990'  
FNL, SEC. 35,  
T-21-S, R-28-E

SPUD: 4-4-78  
COMP: —  
P & A: 4-22-78

10 SX CLASS "H" @ TOP

12 1/4" HOLE

410' - 8 5/8", 24#/H, K-55,  
ST&C CSG, CMT'D W/300  
SXS CLASS "C"

T/SALT 400'  
350'-450' 70 SX CLASS "C"

55 SX CLASS "H" 1500'-1600'

7 7/8" HOLE

T/DELAWARE 2265'

55 SX CLASS "H" 2600'-2700'

T/LAMAR 2710'  
T/RAMSEY 2780'

BEFORE E. A. INER STAMETS  
OIL CONSERVATION DIVISION

EXHIBIT NO. 3F

CASE NO. 6871

Submitted by BASS

Hearing Date 4/23/80

140 SX CLASS "H" 3450'-3600'

3790' TD

SDS 4/22/80

WELL STATUS  
BIG EDDY UNIT NO. 62  
INDIAN FLATS DELAWARE  
EDDY COUNTY, NEW MEXICO

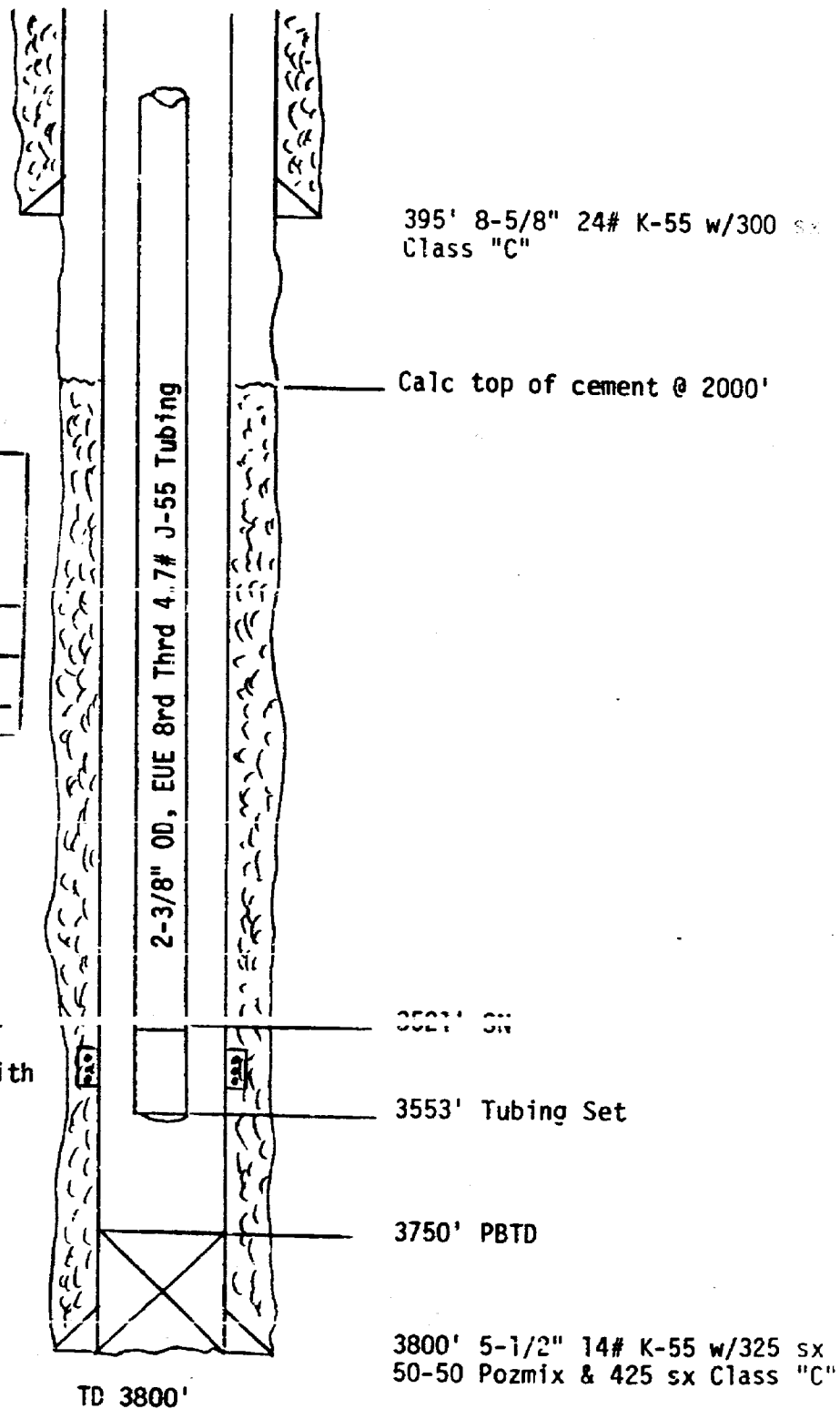
Elev: 3169' GL  
3178' KB

Spud: 9-1-78  
Comp: 10-6-78

Location: 2310' FWL & 330'  
FSL, Sec. 35, T21S, R28E

BEFORE EXAMINER SIGNATURES	
OIL CONSERVATION DIVISION	
EXHIBIT NO. <u>36</u>	
CASE NO.	<u>6871</u>
Submitted by	<u>BASS</u>
Hearing Date	<u>4/23/80</u>

10-4-78 Delaware  
Perforated w/1 .15DF @ 3522'  
3534', 3536', 3538', 3540',  
3542' (6 shots). Acidize with  
500 gals 15% NE HCl



SDS 4/22/80

WELL STATUS  
BIG EDDY UNIT NO. 63  
EDDY COUNTY, NEW MEXICO

Elev. 3156.4' GL  
3168.9' RKB

Spud: 1-15-79

Located: 990' FWL, 330' FSL,  
Sec. 35, T21S, R28E

P & A 1-27-79

20' plug @ Surface w/Class "C"

370'-470' 35 sxs Class "C"

420' 8-5/8" 24#/ft K-55 ST&C Csg  
Cmtd w/300 sxs Class "C"

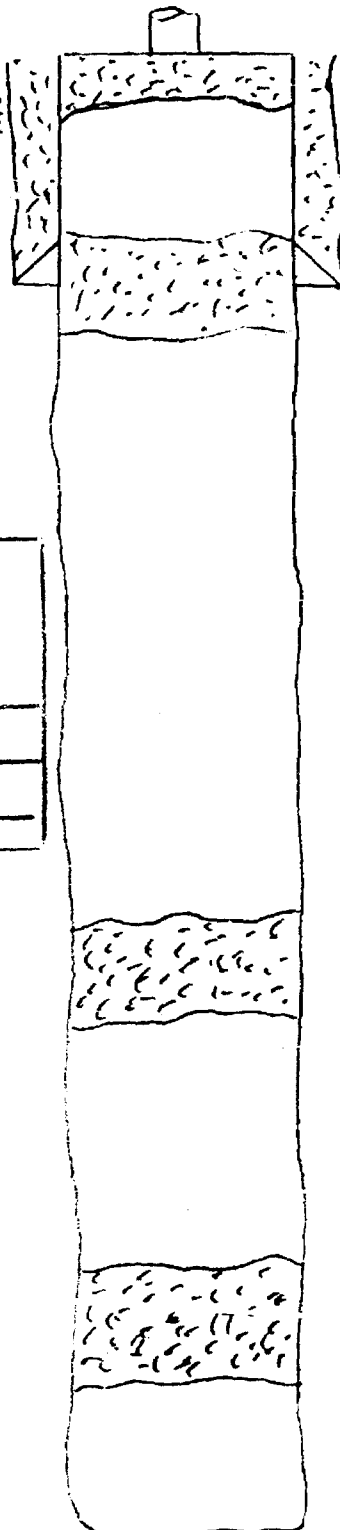
BEFORE EXAMINER SIGNATURES  
OIL CONSERVATION DIVISION

EXHIBIT NO. 3H

CASE NO. 6371

Submitted by BASS

Hearing Date 4/23/80



2570' - 2700' 35 sxs Class "C"

3460' - 3650' 50 sxs Class "C"

3745' TD

BIG EDDY UNIT NO. 59

P & A 4/22/78

Lease No. 03304-01

Location: 990' FNL & 1650' FWL of  
Unit Letter C, Section 35, T-21-S, R-28-E  
Eddy County, New Mexico

Total Depth: 3790'

Producing Interval: (Delaware)

Casing: 8 5/8" set @ 410' cmt'd with 300 sx Class "C" cement.

Cement Plugs: 3600'-3450' 140 sx; 2700'-2600' 55 sx;  
1600'-1500' 55 sx; 450'-350' 70 sx; 10 sx at surface  
all Class "H" cement.

BIG EDDY UNIT NO. 62

Lease No. 11890-01

Location: 330' FSL & 2310' FWL of  
Unit Letter N, Section 35, T-21-S, R-28-E  
Eddy County, New Mexico

Total Depth: 3800' PBTD @ 3750'

Producing Interval: 3532'-3542' (Delaware)

Casing: 8 5/8" set @ 395' cmt'd with 300 sx Class "C" cement circulated to surface.  
5 1/2" set @ 3800' cmt'd w/325 sx, calculated top of cement @ 2000'.

BIG EDDY UNIT NO. 63

P & A 1/27/79

Lease No. 11890-00

Location: 330' FSL & 990' FWL of  
Unit Letter M, Section 35, T-21-S, R-28-E  
Eddy County, New Mexico

Total Depth: 3745'

Producing Interval: (Indian Flats)

Casing: 8 5/8" set @ 420' cmt'd with 300 sx Class "C" + 2% CaCl<sub>2</sub>.

Cement Plugs: 3650'-3460' 50 sx; 2700'-2570' 35 sx;  
470'-370' 35 sx; 20' surface plug. All Class "C" cement.



TABULAR SUMMARY  
WELLS WITHIN ONE HALF MILE RADIUS OF BIG EDDY UNIT NO. 56

**BIG EDDY UNIT NO. 41**

Lease No. 03304-01  
Location: 1980' FSL & 1980' FEL of  
Unit Letter J, Section 35, T-21-S, R-28-E  
Eddy County, New Mexico

Total Depth: 12,660'  
Producing Interval: 11,419-11,434' (Atoka)

Casing: 11 3/4" set @ 260' cmt'd with 250' sx, circulated to surface.  
8 5/8" set @ 2794.80' cmt'd with 2200 sx, circulated to surface.  
5 1/2" set @ 12,660.21' cmt'd with 600 sx, top of cmt 10,745' by  
cement bond log.

**BIG EDDY UNIT NO. 47**

Lease No. 03304-01  
Location: 1980' FNL & 1980' FWL of  
Unit Letter F, Section 35, T-21-S, R-28-E  
Eddy County, New Mexico

Total Depth: 3791'  
Producing Interval: 3548-3557' (Delaware)

Casing: 8 5/8" set @ 305.03' cmt'd with 200 sx, circulated to surface.  
5 1/2" set @ 3794.00' cmt'd with 616 sx, calculated top of  
cement 1542'.

**BIG EDDY UNIT NO. 49**

Lease No. 03304-01  
Location: 1650' FSL & 330' FWL of  
Unit Letter L, Section 35, T-21-S, R-28-E  
Eddy County, New Mexico

Total Depth: 3808'  
Producing Interval: 3655-3677' (Delaware)

Casing: 8 5/8" set @ 324' cmt'd with 350 sx, circulated to surface.  
5 1/2" set @ 3808' cmt'd with 350 sx, calculated top of cement 2376'.

**BIG EDDY UNIT NO. 58**

Lease No. 03304-01  
Location: 2310' FSL & 1650' FWL of  
Unit Letter K, Section 35, T-21-S, R-28-E  
Eddy County, New Mexico

Total Depth: 3820'  
Producing Interval: 3544-3553' (Delaware)

Casing: 8 5/8" set @ 400' cmt'd with 300 sx, circulated to surface.  
5 1/2" set @ 3800' cmt'd with 450 sx, calculated top of cement 1760'.

BEFORE EXAMINER STAMETS  
OIL CONSERVATION DIVISION

EXHIBIT NO. 2

CASE NO. 6871

Submitted by BASS

Hearing Date 4/23/80

P. O. BOX 1468  
MONAHANS, TEXAS 79786  
PHONE 943-3234 OR 943-1940

Martin Water Laboratories, Inc.

700 W. INDIANA  
MIDLAND, TEXAS 79701  
PHONE 683-4321

RESULT OF WATER ANALYSES

TO: Mr. John Rodgers LABORATORY NO. 480148  
P.O. Box 2760, Midland, Texas SAMPLE RECEIVED 4-21-80  
RESULTS REPORTED 4-21-80

COMPANY Bass Enterprises & Foundation, Inc. Big Eddy Unit #56 RND  
FIELD OR POOL Company Big Eddy  
SECTION      BLOCK      SURVEY      COUNTY Eddy STATE New Mexico

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Composite disposal water (Morrow, Atoka & Delaware). 4-19-80  
NO. 2       
NO. 3       
NO. 4     

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0942			
pH When Sampled				
pH When Received	7.3			
Bicarbonate as HCO <sub>3</sub>	129			
Supersaturation as CaCO <sub>3</sub>	14			
Undersaturation as CaCO <sub>3</sub>	-			
Total Hardness as CaCO <sub>3</sub>	22.750			
Calcium as Ca	5.680			
Magnesium as Mg	2.078			
Sodium and/or Potassium	50.708			
Sulfate as SO <sub>4</sub>	2.597			
Chloride as Cl	92.325			
Iron as Fe	0.90			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	153.517			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	7.5			
Resistivity, ohms/m at 77° F.	0.069			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Form No. 3

By Waylan C. Martin  
Waylan C. Martin, M. A.