PAGE A BUAL COMPLETION, LEA

CASE NO.

6870

APPlication,
Transcripts,
Small Exhibits,

ETC.



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

May 14, 1980

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

Company

6970

Mr. Conrad E. Coffield Hinkle, Cox, Eaton, Coffield & Hensley	ORDER NO. R-6339								
Attorneys at Law P. O. Box 3580	Applicant:								
Midland, Texas 79702	Bass Enterprises Production								
Dear Sir:									
Rnclosed herewith are two copies Division order recently entered									
JOE D. RAMEY									
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J υκ/ Ια									
Copy of order also sent to:									
Hobbs OCD X Artesia OCD X Aztec OCD									
Other									

Re: CASE NO.

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. 6870 Order No. R-6339

APPLICATION OF BASS ENTERPRISES PRODUCTION COMPANY FOR A DUAL COMPLETION, LEA 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 13th day of May, 1980, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the branises,

PIMDS:

- (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 authority to complete its Bass State 36 Well No. 1, located in Unit E of Section 36, Township 15 South, Range 34 East, EMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Townsend-Wolfcamp Pool and gas from an undesignated Morrow pool through the tubing and casing-tubing annulus, respectively, by means of a cross-over assembly, with separation of the sones achieved by means of packers installed at approximately 10,865 feet and 11,944 feet.
- (3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (4) That approval of the subject application will prevent waste and protect correlative rights.

-2-Case No. 6870 Order No. R-6339

IT IS THEREFORE ORDERED:

(1) That the applicant, Bass Enterprises Production Company, is hereby authorised to complete its Bass State 36 Well No. 1, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 34 East, located in Unit E of Section 36, Township 15 South, Range 36,

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Division Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer leakage tests upon completion and annually thereafter during the Annual Shut-In Pressure Test Period for gas wells in Southeast New Mexico.

(2) 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

JOB D. RAMES

Director

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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 Pro-) duction Company for a dual comple-) tion, Lea County, New Mexico.

CASE 6870

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

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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JAMES F. GROCE

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BALLY W. BOYD, C.E.I R. 1 Box 195-B Sants Fe, New Mexico 57301 Phone (305) 455-7499

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MR. STAMETS: We'll call next Case 6870.

MR. PADILLA: Application of Bass Enterprises Production Company for a dual completion, Lea County, New Mexico.

MR. STAMETS: Call for appearances.

MR. COFFIELD: Conrad Coffield with the Hinkle Law Firm in Midland, Texas, appearing on behalf of the applicant and I have one witness to be sworn.

(Witness sworn.)

JAMES F. GROCE

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

DIRECT EXAMINATION

BY MR. COFFIELD:

Q Will you please state your name for the record, Mr. Groce, your address, occupation, and employees

A My name is James F. Groce. I'm a Senior Production Engineer with Bass Enterprises Production Company, Box 2760, Midland, Texas.

Q Have you previously testified before the Division as a petroleum engineer?

A No, sir, I have not.

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For the record would you please, then, state your educational background and your work experience as a petroleum engineer?

Yes, sir.

I attended Texas Tech University and A. graduated in May of 1971 with a Bachelor of Science degree in chemical engineering.

I went to work for Texaco, Incorporated, in the Sweetwater Area Office, Sweetwater, Texas. I served there approximately three years as a petroleum engineer; was transferred to the Wichita Falls District Office as drilling and production engineer. I worked there until February of 1977 when I was transferred to Midland as an Assistant District Engineer in charge of the Reservoir Section.

I resigned from Texaco in November of 1978 and went to work for Bass Enterprises at that time in the Midland Office. I have been with Bass for the last year

I have also been a member of the Society and a half. of Petroleum Engineers of AIME since 1971.

Mr. Groce, are you familiar with the application of Bass Enterprises Production Company in this case?

Yes, sir, I am.

And are you familiar with the property Q.

MALLY W. BOYD, C.S.R. Rt. 1 Box 193-B Sents Ft. New Mexico 67301 Phone (305) 455-7487

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and the well location involved here?

A Yes, sir, I am.

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

MR. STAMETS: No, the witness is considered qualified.

Q Mr. Groce, what is it that Bass Enterprises Production Company seeks in this particular case?

A Bass Enterprises seeks approval for a dual completion, conventional, of its Bass 36 State Well No. 1 in Unit E, Section 26 -- 36, excuse me, Township 15 South, Range 34 East, to produce Townsend Wolfcamp Pool oil and undesignated Morrow gas through the tubing and casing-tubing annulus, respectively, by means of a crossover assembly.

Q Mr. Groce, refer to what we've marked as Exhibit One and please explain that to the Examiner.

A Yes. Exhibit One is a space land plat centered on Bass 36 State Well No. 1. The area outlined in yellow on the plat represents Bass' acreage in the area. The green arrow points to the location of Bass 36 State Well No.

1. The proration unit is shown in the dashed blue lines around that well and consists of the west 320 acres of the section.

Offset operators to the unit are Gulf Exploration and Production Company to the northeast; Morris

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Antweil to the wast; and the Superior Oil Company to the south, respectively.

Q You have marked on this exhibit, Mr.

Groce, Griffin and Burnett, shown here on this tract immediately south of the location. Would you explain that relationship, please?

A Yes, sir, Griffin and Burnett purchased the acreage for Bass Enterprises, acting as our agent.

Q. Okay, let's go on then to Exhibit Two and Two-A, please, and explain that to the Examiner.

A. All right. Exhibit Two and Two-A are open hole logs run on Bass 36 State Well No. 1.

Exhibit Two is the compensated density neutron log on the well. I have indicated on the log the depths of the various formations in the well, beginning with the Wolfcamp formation at approximately 9574.

Also indicated are the perforations designated in the Wolfcamp Pool, shown in green, beginning with perforations at 10,932 feet.

Also shown are the Morrow formation at 11,890 feet with its perforations beginning at 12,045 feet.

Also, Exhibit Two-A is the dual induction focused logs run on the same well, and as designated by the same markings.

Bass proposes to dually complete Well No.

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l in the Wolfcamp and Morrow perforations.

Okay, go to what we've marked as Exhibit Three now, will you, please, Mr. Groce, and explain that exhibit.

Exhibit Three is a coordinate plot of pressure versus depth. The red line indicates a pressure gradient of the Morrow gas formation. The gradient was run after a 96-hour shutin period. We made stops at 3000, 9000 feet, and just below the permanent packer at 11,959 feet. This gradient represents the maximum pressure that we would expect should the well be shut in.

Also shown in green are the API standard internal yield pressures for the various grades of casing as they are landed in the well. The line at 8800 feet has been dashed from there down, representing top of cement in this well and the additional backup that cement would add to the The yellow on the arbibit represents the safety factor between the maximum possible pressure on the casing and the minimum pressure that would cause damage to the casing string.

Mr. Groce, what formula did you use to determine the internal yield pressures for the casing?

The formula used was Barlow's formula for calculating burst pressure of steel modified by the substitution of yield strength for tensil strength in the for-

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mula and by use of a 12.5 percent safety factor to cover the range of wall thicknesses that are permitted under API standards.

This is a conservative approach, since it does not take into account the backup behind the casing that the fluid gradient provides.

Q Is that approach generally considered to be the most conservative approach?

A. Yes, it is.

Q. Mr. Groce, will Bass pressure test the casing in compliance with statewide regulations if this application is approved?

A Yes, sir, we will.

Q Will you please refer to what we've marked as Exhibit Four and describe that to the Examiner.

A All right. Exhibit Four is a diagrammatic chatch of the well as proposed by Bass Enterprises for dual completion. The red on the diagram indicates the path Morrow gas will take from the perforations through the tubing string up to above the crossover assembly where it will enter the casing above the packer and be produced up the casing to the flow line. The green indicates the path that the oil production from the Wolfcamp interval as it enters the crossover choke and will be produced up the tubing.

We propose to begin the dual completion

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by retrieving a bridge plug that is now set between the two intervals marked as Canyon perforations at 11,050 feet.

We will run a packer and set it and test the casing at that time prior to stimulating the Canyon zone, or the Wolfcamp zone.

We will then retrieve a bridge plug that is set below the Canyon, run our tubing assembly with the crossover or with the side port nipple assembly and the packer and set it. We will then retrieve the plug we now have set below the permanent packer that is above the Morrow perforations. We will then install the crossover choke, swab the well in and test it, and then shut in both the Wolfcamp and the Morrow zones to obtain a packer leakage test, after which we will place the well on production.

Q Mr. Groce, what studies have you done on the relative economics of this project?

A. Our studies indicate that completing Bass 36 State No. 1 dually has very favorable economics. The cost of the dual completion of this type is estimated at \$260,000, and we'll have a payout of 2-1/2 months.

If Bass were to drill a twin well to produce the Canyon separately from the Morrow, the cost for such a well in the area would be approximately \$850,000, and would require approximately one year to payout. Therefor, it's less costly and more economical to dually complete the Well

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No. 1 as compared to drilling a twin well.

In addition, running a single string of tubing will permit economical production of the Morrow, which is a low volume tight reservoir in this area. It has absolute open flow of only 591 Mcf per day. This method of running a single string of tubing as opposed to running a parallel string of tubing reduces the payout period by 1/2, or approximately two months.

Q What about waivers from offset operators?

Do you have those, Mr. Groce?

A We have obtained waivers from Gulf Oil,
Gulf Exploration and Production Company, and from Morris
Antweil. Superior Oil has been notified of this application
but we have not received their waiver yet, although they have
not indicated any objections.

What is the current status of the well?

A The well currently has been completed in both zones. It is shutin now waiting on a year and approval of this application.

A Have these exhibits One through Four been prepared by you or under your supervision?

A Yes, sir, they have.

And in your opinion will the approval of this application by Bass prevent drilling of unnecessary wells and otherwise prevent waste and protect correlative

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rights?

Yes, sir, it will.

MR. COFFIELD: Mr Examiner, I move the admission of Exhibits One through Four.

MR. STAMETS: These exhibits will be admitted.

MR. COFFIELD: I have no other questions of Mr. Groce upon direct examination.

CROSS EXAMINATION

BY MR. STAMETS:

Mr. Groce, the oil zone is referred to as the Townsend Wolfcamp, and yet you've labeled it Canyon on all the exhibits. What's the significance of that?

Well, our geological interpretation is that it is Campon age pay; nowever, all of the oil production in this area has been assigned to the Townsend Wolfcamp Field

Okay. You indicated the Morrow had a potential of 591 Mcf per day?

Yes, sir.

How was that well tested?

This was by a 4-point back pressure test.

Was that through a single string of tubing or was that

Yes, sir, it was.

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Do you have a copy of that test with you?

A. I'll have to refer to my notes. I don't know if I did or not. Yes, it has been filed with the Division.

No, sir, I do not have one with me.

Q In your recollection, how much was produced in the way of liquids from the Morrow zone?

A. There was less than 10 barrels a day produced while we were testing it.

On That's a -- 10 barrels a day would seem to be a fairly significant liquid volume if you're only talking about half a million cubic feet of gas.

Yes, sir, but some of that liquid was still load fluid that we were producing back from our stimulation.

Are you telling me by that that the liquid was not condensate but was water, as well?

A Yes, sir.

Q Did it produce any condensate?

A. Yes, sir, it did.

A How much condensate did it produce?

A Approximately 30 percent of that, as I

recall.

Is it possible for that well to produce that volume of condensate with this relatively low volume of

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gas up the annulus efficiently?
                        Yes, sir, we feel it is.
                        How long would it take to determine
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    whether it is in fact efficient or not?
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                         It shouldn't take very long once we get
     the well on production.
                          Ninety days?
                          Yes, sir, probably.
                           In this 5-1/2 inch production pipe, would
       it be possible to run two strings of tubing?
                            Yes, sir, it would, two strings of 2-1/16th
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                             Would Bass be willing to run a test at
        inch tubing.
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         the end of ninety days production to confirm that the method
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         of production of the Morrow zone was efficient?
                              Yes, sir, we would.
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                               MR. STAMETS: Any other questions of the
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           witness? The witness may be excuseu.
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                                Anything further in this case?
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                                MR. COFFIELD: No, sir.
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                                 MR. STAMETS: The case will be taken under
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             advisement.
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                                   (Hearing concluded.)
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LY W. BOYD, C.S., Rt. 1 Box 193-B mar Pe, New Mexico 87501 where (305) 455-7409

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.

Sary W. Bay Cose.

I do here to execute that the foregoing is a complete receive of the proceedings in

Oil Conservation Division

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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 Pro-)
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CASE 6870

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

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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JAMES F. GROCE

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EXHIBITS

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MR. STAMETS: Call for appearances.

MR. COFFIELD: Conrad Coffield with the

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(Witness sworn.)

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My name is James F. Groce. I'm a Senior

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New Mexico.

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For the record would you please, then, state your educational background and your work experience as a petroleum engineer?

Yes, sir.

I attended Texas Tech University and graduated in May of 1971 with a Bachelor of Science degree in chemical engineering.

I went to work for Texaco, Incorporated, in the Sweetwater Area Office, Sweetwater, Texas. I served there approximately three years as a petroleum engineer; was transferred to the Wichita Falls District Office as drilling and production engineer. I worked there until February of 1977 when I was transferred to Midland as an Assistant District Engineer in charge of the Reservoir Section.

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Yes, sir, I am.

And are you familiar with the property

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

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This is a conservative approach, since it does not take into account the backup behind the casing that the fluid gradient provides.

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We will run a packer and set it and test the casing at that time prior to stimulating the Canyon zone, or the Wolfcamp zone.

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And in your opinion will the approval of this application by Bass prevent drilling of unnecessary wells and otherwise prevent waste and protect correlative

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MR. COFFIELD: Mr Examiner, I move the admission of Exhibits One through Four-

MR. STAMETS: These exhibits will be ad-

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MR. COFFIELD: I have no other questions of Mr. Groce upon direct examination.

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BY MR. STAMETS:

Mr. Groce, the oil zone is referred to as the Townsend Wolfcamp, and yet you've labeled it Canyon on all the exhibits. What's the significance of that?

Well, our geological interpretation is that it is Canyon age pay; however, all of the oil production in this area has been assigned to the Townsend Wolfcamp Field.

Okay. You indicated the Morrow had a potential of 591 Mcf per day?

Yes, sir.

How was that well tested?

This was by a 4-point back pressure test.

Was that through a single string of tubing

or was that --

Yes, sir, it was.

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Do you have a copy of that test with you?

A. I'll have to refer to my notes. I don't know if I did or not. Yes, it has been filed with the Division.

No, sir, I do not have one with me.

Q In your recollection, how much was produced in the way of liquids from the Morrow zone?

A. There was less than 10 barrels a day produced while we were testing it.

Q That's a -- 10 barrels a day would seem to be a fairly significant liquid volume if you're only talking about half a million cubic feet of gas.

Yes, sir, but some of that liquid was still load fluid that we were producing back from our stimu-lation.

Are you telling me by that that the liquid was not condensate but was water, as well?

A Yes, sir.

Q Did it produce any condensate?

A Yes, sir, it did.

How much condensate did it produce?

A Approximately 30 percent of that, as I recall.

Ω Is it possible for that well to produce that volume of condensate with this relatively low volume of

gas up the annulus efficiently?

A Yes, sir, we feel it is.

Q How long would it take to determine whether it is in fact efficient or not?

A It shouldn't take very long once we get the well on production.

Q Ninety days?

A Yes, sir, probably.

Q In this 5-1/2 inch production pipe, would it be possible to run two strings of tubing?

A Yes, sir, it would, two strings of 2-1/16th inch tubing.

Q Would Bass be willing to run a test at the end of ninety days production to confirm that the method of production of the Morrow zone was efficient?

A Yes, sir, we would.

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

Anything further in this case?

MR. COFFIELD: No, sir.

MR. STAMETS: The case will be taken under

advisement.

23

(Hearing concluded.)

age _____14___

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. (R. 1 Box 193-B Santa Pt. New Merico 1730 Phone (303) 435-7409 10

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I do here of ce his that the foregoing is to a commerce hearing of Case No. 19.

The Examiner hearing of Case No. 19.

The Examiner on Prize on Pri

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Docketo 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.H. - OIL CONSTRVATION 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. Nutter, 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 plussed 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.

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.

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

CASE 6873: Application of Harvey E. Yates Company for an unorthodox gas well location, which county. New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Travis Beep 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.

CASE 6876: 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 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-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 Naurice 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.
- 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 VadaPennsylvanian 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 II, 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 II. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- Application of 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 John 1. Hemon for a tubingless completion, Lea County, New Mexico.

 Application of John shows styled cause, seeks sufficiently to produce his Amerada Federal Well No. 2

 located in Unit F of Section 17, Township 20 South, Range 30 Houst, Martin Condomination Gaz 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 MGPA 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.

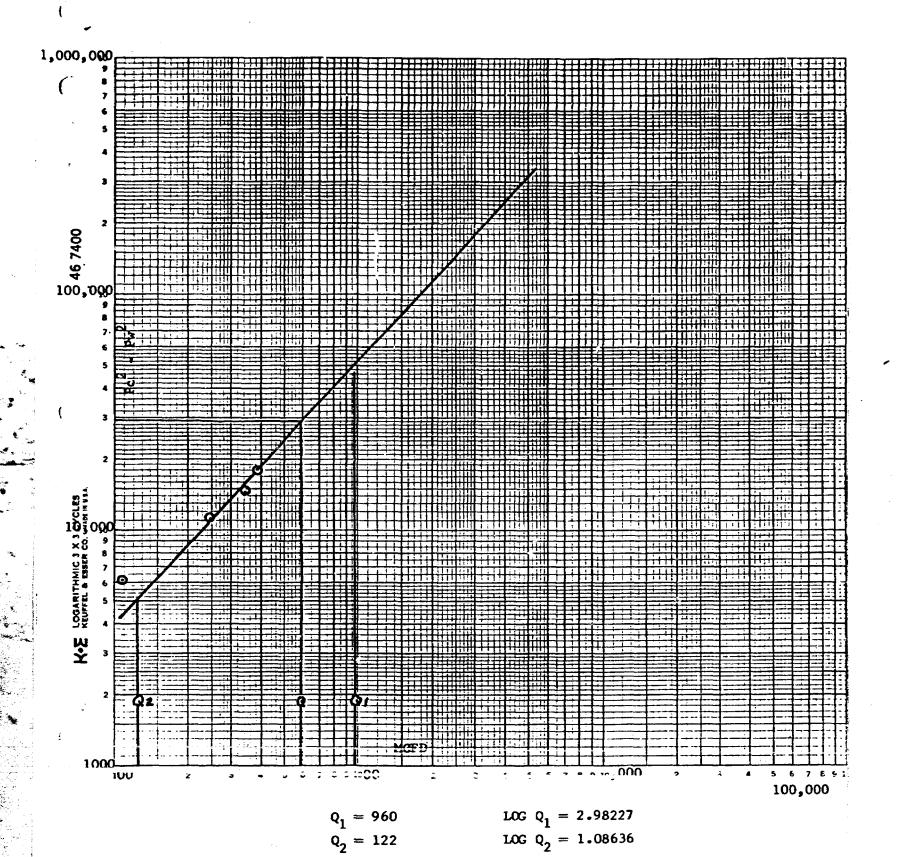
CASE 6837: (Continued from April 9, 1980, Examiner Hearing)

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.

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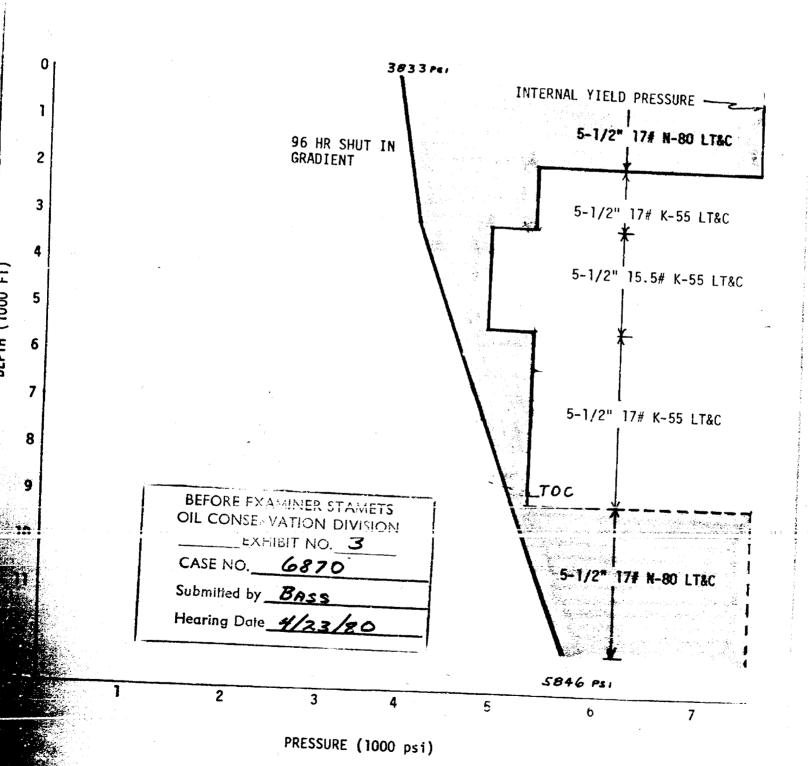
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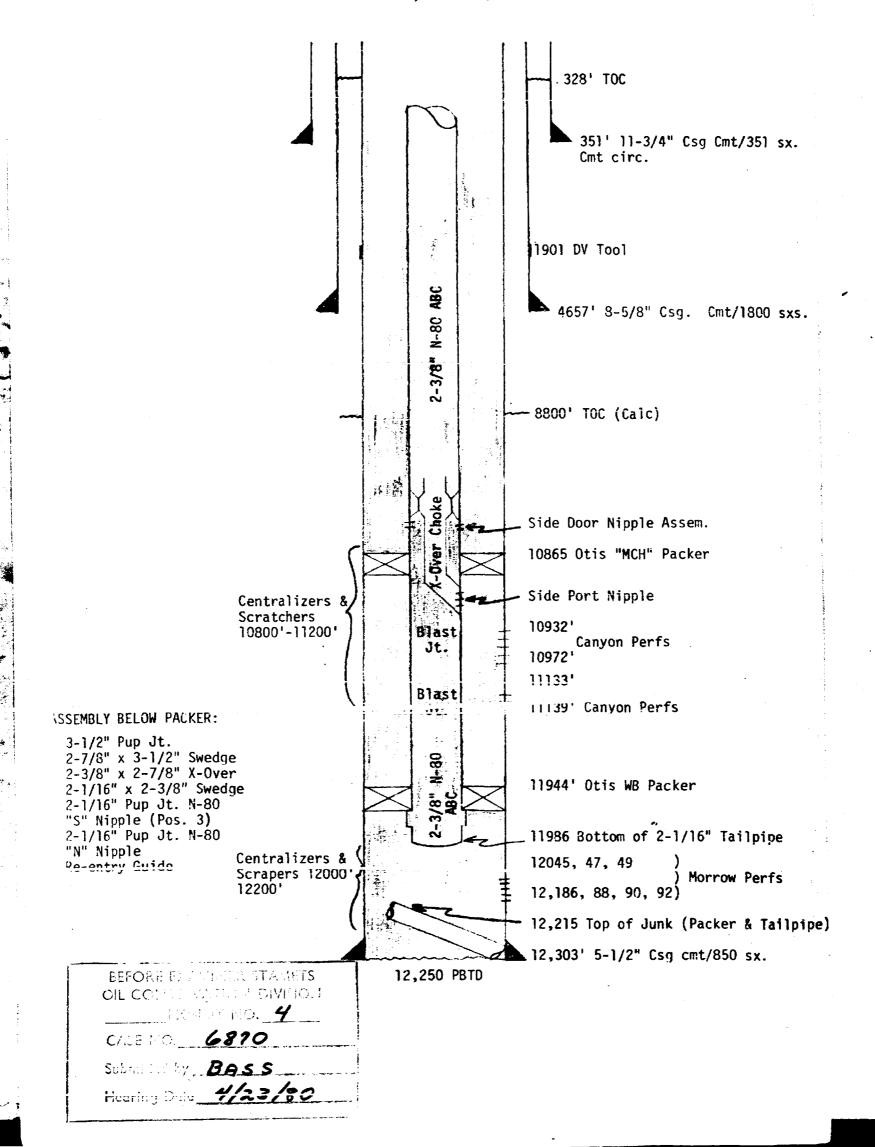


BASS 36 STATE NO. 1

Pressure Gradient For Morrow vs. Casing Burst Exhibit No. 3

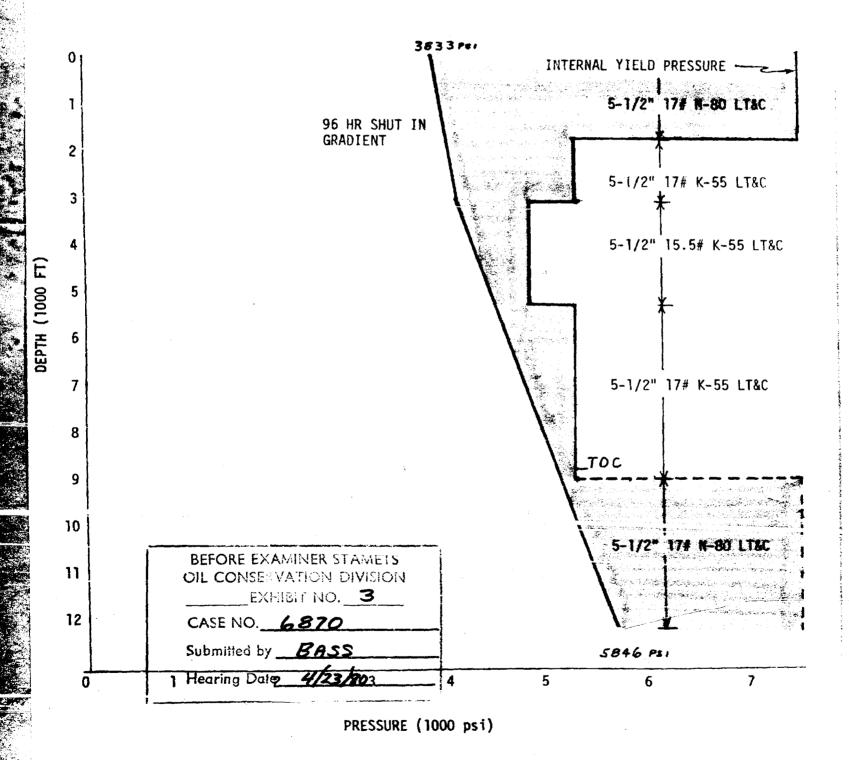


PROPOSED INSTALLATION
BASS STATE 36 WELL NO. 1
LEA COUNTY, New MEXICO

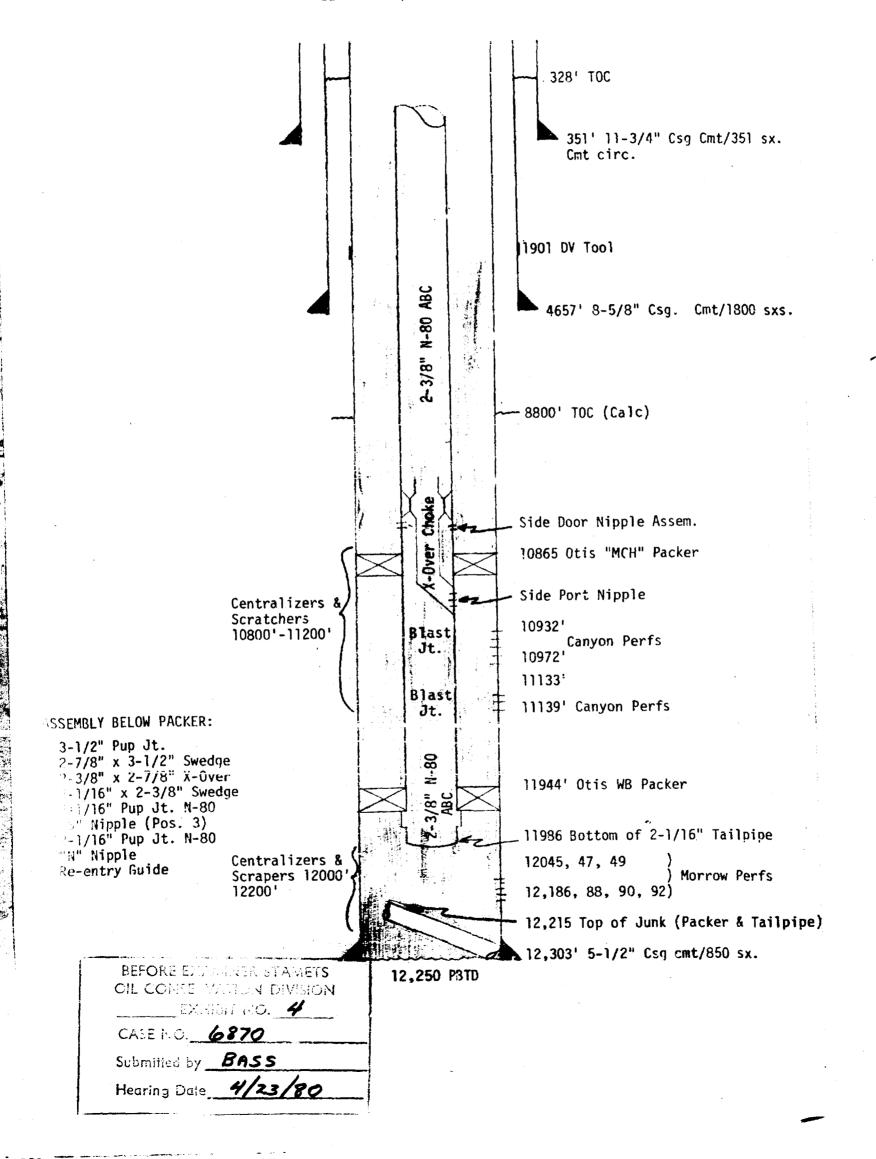


BASS 36 STATE NO. 1

Pressure Gradient For Morrow vs. Casing Burst Exhibit No. 3



PROPOSED INSTALLATION
BASS STATE 36 WELL NO. 1
LEA COUNTY, New MEXICO



LAW OFFICES

HINKLE, COX, EATON, COFFIELD & HENSLEY

1000 FIRST NATIONAL BANK TOWER

POST OFFICE BOX 3580

MIDLAND, TEXAS 79702

(915) 683-4691

MATICA DIVISION CO OF SANTA FE

HLLO, TEXAS OFFICE

EATON, COFFIELD, MARTIN, BCZARTH, DN, FINNEY, FOSTER, ALLEN, ALLEN, URFORD, BREWER & STONE LICENSED IN TYXAS

April 24, 1980

Re: Examiner Hearing

April 23, 1980 Case No. 6870

Energy and Minerals Department Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Richard L. Stamets, Examiner

Gentlemen:

With respect to the above captioned Case No. 6870 in which Bass Enterprises Production Company applied for a dual completion of its Bass 36 State Well No. 1 located in Unit E of Section 36, Township 15 South, Range 34 East, this letter is to confirm submittal to the Examiner, as requested but following the close of testimony, of a copy of Form C-122, Multipoint Back Pressure Test for the subject well.

Concerning this test, Mr. James F. Groce, witness for Bass Enterprises Production Company, would like to clarify his statements made about liquid production from this well. After ments made about light production from this well. After reviewing the mell records, Mr. Groce discovered that upon initial completion, and for only two days ofterwards, the well produced condenstate at the rate of 5 to 10 bbls per MMCF. Following a hydraulic fracture stimulation, the well produced load water at a rate of 8 to 10 bbls per day with no condensate present. By the time the Multipoint Back Pressure Test was run, the well was not producing any liquids, water or condensate, and none were recovered during the test or after.

Yours very truly,

HINKLE, COX, EATON, COFFIELD & HENSLEY

Conrad E. Coffield

CEC:rh

LAW OFFICES

HINKLE, COX, EATON, COFFIELD & HENSLEY

1000 FIRST NATIONAL BANK TOWER

POST OFFICE BOX 3580

MIDLAND, TEXAS 797C2

(915) 683-4691

NEW MEXICO OFFICE TA FE

March 28, 1980

Mr. Dan Nutter Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87501 Case 6870

Re: April 23 Docket OCD Hearing

Dear Dan:

Per our telephone conversations, I am transmitting herewith, executed in triplicate, two separate Applications for Hearing. One is for the amendment to Order R-5693 to remove the restriction specified in that Order relative to the termination of salt water injection operations. The second Application is for dual completion of Bass Enterprises Production Co.'s Bass State 36 Well No. 1 in Section 36, Township 15 South, Range 34 East, N.M.P.M., Lea County, New Mexico. I understand you have already set these on the April 23 docket.

Very truly yours,

HINKLE, COX, EATON, COFFIELD & HENSLEY

nrad E. Coffield

CEC:rh Enclosures

xc: Mr. Jim Pullig

Mr. Steve Rowland

Mr. James Groce

Mr. John Rodgers

BEFORE THE OIL CONSERVATION DIVISION

DEPARTMENT OF ENERGY AND MINERALS

STATE OF NEW MEXICO

APPLICATION BY BASS ENTERPRISES PRODUCTION COMPANY FOR DUAL COMPLETION LEA COUNTY, NEW MEXICO

Case 6870

APPLICATION FOR HEARING

COMES NOW the undersigned as attorney on behalf of Bass Enterprises Production Company and files this written 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 15 South, Range 34 East, N.M.P.M Lea County, New Mexico

Section 36: Wh

- 3. General Nature of Order Sought: Applicant seeks authority to dually complete its Bass State 36 Well No. 1 located in Unit E of said Section 36 with said dual completion to be as to the Townsend (Wolfcamp) formation, producing oil therefrom and an undesignated Morrow formation producing gas therefrom, with production to be from a dual completion conventional.
- 4. Other Matters to be Noted in Connection with Order Sought: The top and bottom of pay sections in the upper zone are found at 10,932 feet 11,139 feet and as to the lower zone from 12,045 feet 12,192 feet. Offset operators to this lease are Gulf Exploration and Production Company, Box 1150, Midland, Texas, 79702, The Superior Oil Company, Box 71, Conroe, Texas, 77301, and Morris R. Antweil, P. O. Box 2010, Hobbs, New Mexico, 88240.

Dated this 28th 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 FOR DUAL COMPLETION LEA COUNTY, NEW MEXICO

Case 6870

APPLICATION FOR HEARING

COMES NOW the undersigned as attorney on behalf of Bass Enterprises Production Company and files this written 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 15 South, Range 34 East, N.M.P.M Lea County, New Mexico

Section 36: Wh

- 3. General Nature of Order Sought: Applicant seeks authority to dually complete its Bass State 36 Well No. 1 located in Unit E of said Section 36 with said dual completion to be as to the Townsend (Wolfcamp) formation, producing oil therefrom and an undesignated Morrow formation producing gas therefrom, with production to be from a dual completion conventional.
- 4. Other Matters to be Noted in Connection with Order Sought: The top and bottom of pay sections in the upper zone are found at 10,932 feet 11,139 feet and as to the lower zone from 12,045 feet 12,192 feet. Offset operators to this lease are Gulf Exploration and Production Company, Box 1150, Midland, Texas, 79702, The Superior Oil Company, Box 71, Conroe, Texas, 77301, and Morris R. Antweil, P. O. Box 2010, Hobbs, New Mexico, 88240.

Dated this 28th day of March, 1980.

Respectfully submitted,

HINKLE, COX, EATON, COFFIELD & HENSLEY

y: Coorson

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 FOR DUAL COMPLETION LEA COUNTY, NEW MEXICO

Case 6870

APPLICATION FOR HEARING

COMES NOW the undersigned as attorney on behalf of Bass Enterprises Production Company and files this written 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 15 South, Range 34 East, N.M.P.M Lea County, New Mexico

Section 36: Why

- 3. General Nature of Order Sought: Applicant seeks authority to dually complete its Bass State 36 Well No. 1 located in Unit E of said Section 36 with said dual completion to be as to the Townsend (Wolfcamp) formation, producing oil therefrom and an undesignated Morrow formation producing gas therefrom, with production to be from a dual completion conventional.
- 4. Other Matters to be Noted in Connection with Order Sought: The top and bottom of pay sections in the upper zone are found at 10,932 feet 11,139 feet and as to the lower zone from 12,045 feet 12,192 feet. Offset operators to this lease are Gulf Exploration and Production Company, Box 1150, Midland, Texas, 79702, The Superior Oil Company, Box 71, Conroe, Texas, 77301, and Morris R. Antweil, P. O. Box 2010, Hobbs, New Mexico, 88240.

Dated this 28th day of March, 1980.

Respectfully submitted,

HINKLE, COX, EATON, COFFIELD & HENSLEY

1:(dens

Conrad E. Coffield Attorney for Bass Enterprises

Production Company

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. 6870
Order No. R- 6339
APPLICATION OF BASS ENTERPRISES PRODUCTION COMPANY FOR A DUAL COMPLETION, LEA
ORDER OF THE DIVISION
This cause came on for hearing at 9 o'clock a.m. on
April 23 , 19 80 , at Santa Fe, New Mexico, before
Examiner Richard L. Stamets
NOW, on this day of, 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 authority to complete its Bass State 36 Well No. 1
Weldx Nocxxxxx , located in Unit E of Section 36 , Town-
ship 15 South , Range 34 East , NMPM, Lea
County, New Mexico, as a dual completion (conventional) to(combination)(tubingless)
oil produce pask from the Townsend-Wolfcamp Pool and gas from an
undesignated Morrow pool through the tubing and casing-tubing
annulus, respectively, by means of a cross-over assembly, with
separation of the zones achieved by means of packers installed
at approximately 10,865 feet and 11,944 feet.

- (3) That the mechanics of the proposed <u>dual</u> completion are feasible and in accord with good conservation practices.
- (4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:
(1) That the applicant, Bass Enterprises Production Company
is hereby authorized to complete its Bass State 36 Well No. 1
XMAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Township 15 South , Range 34 East , NMPM, Lea
County, New Mexico, as a dual completion(conventional)
oil to produce xxxx from theTownsend-Wolfcamp Pool, and gas from an
undesignated Morrow pool through the tubing and basing-tubing
and thence, through means of a cross-over assembly, through
The casing - Tubing annulus with separation of the zones to be achieved
the casing-Vubing annulus with separation of the zones to be achieved of a packers sit at approximately 11.944 feet. PROVIDED HOWEVER, that the applicant shall complete, operate
and produce said well in accordance with the provisions of Rule
112-A of the Division Rules and Regulations insofar as said rule
is not inconsistent with this order;
PROVIDED FURTHER, that the applicant shall take

Red packer leukoge tests upon completion and annually thereafter during the Annual Shat-In Pressure Test Period for the gos wills in Southeast New Mexico. Pool

(2) 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.