

CASE NO.

6833

APPlication, Transcripts, Small Exhibits,

ETC.



ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

April 1, 1980

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING ANTA PE, NEW MEXICO 87501 8058 873-3434

Mr. William F. Carr Campbell and Black Attorneys at Law	Re: CASE NO. 6833 ORDER NO. R-6303
Post Office Box 2208 Santa Fe, New Mexico	Applicant:

Dear Sir:

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

JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCD_	×
Artesia OCD	х
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. 6833 Order No. R-6303

APPLICATION OF HARVEY E. YATES COMPANY FOR DIRECTIONAL DRILLING, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on March 12, 1980, at Santa Fe, New Mexico, before Examiner Daniel 5. Nutter.

NOW, on this 25th day of March, 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, Harvey E. Yates Company, seeks approval for the directional drilling of its Betenbough Well No. 1, the surface location of which is 660 feet from the North line and 1980 feet from the West line of Section 32, Township 13 South, Range 36 East, Lea County, New Mexico, in such a manner as to bottom it within 100 feet of a point 660 feet from the North line and 1830 feet from the West line of said Section 32 in the Austin-Mississippian Pool.
- (3) That the applicant should be required to determine the subsurface location of the kick-off point prior to directional drilling, and to determine the subsurface location of the bottom of the hole by means of a continuous multi-shot directional survey conducted subsequent to said directional drilling, if said well is to be completed as a producing well.

-2-Case No. 6833 Order No. R-6303

IT IS THEREFORE ORDERED:

(1) That the applicant, Harvey E. Yates Company, is hereby authorized to re-enter the Superior Betenbough Well No. 1, a plugged and abandoned well the surface location of which is 660 feet from the North line and 1980 feet from the West line of Section 32, Township 13 South, Range 36 East, NMPM, Lea County, New Mexico, clean it out to a depth of approximately 12,000 feet, and to then directionally drill said well in such a manner as to bottom it within 100 feet of a point 660 feet from the North line and 1830 feet from the West line of said Section 32 at a depth of approximately 13,900 feet in the Austin-Mississippian Pool.

PROVIDED HOWEVER, that prior to directional drilling, the operator shall determine the subsurface location of the kick-off point; and

PROVIDED FURTHER, that subsequent to the above-described directional drilling, should said well be a producer, a continuous multi-shot directional survey shall be made of the wellbore from total depth to the kick-off point with shot points not more than 100 feet apart; that the operator shall cause the surveying company to forward a copy of the survey report directly to the Santa Fe office of the Division, P. O. Box 2088, Santa Fe, New Mexico, and that the operator shall notify the Division's Hobbs District Office of the date and time said survey is to be commenced.

- (2) That Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depths in addition to measured depths.
- (3) 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-

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

JOE D. RAMEY

// Director

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

EXAMINER HEARING

IN THE MATTER OF:

Application of Harvey E. Yates Company for directional drilling, Lea County, New Mexico.

CASE 6833

BEFORE: Daniel S. Nutter

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:

William F. Carr, Esq.
CAMPBELL & BLACK P. A.
P. O. BOX 2208
Santa Fe, New Mexico 87501

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ALLY W. BOYD, C.S. Rt. 1 Box 195-B Seata Fe, New Mendon 27501

I N D E X

RANDOLPH C. SMITH

Direct Examination by Mr. Carr

Cross Examination by Mr. Nutter

EXHIBITS

Applicant Exhibit One, Cross Section

MR. NUTTER: 6833. We'll call next Case Number MR. PADILLA: Application of Harvey E. Yates Company for directional drilling, Lea County, New Mexico. MR. CARR: May it please the Examiner, I'm William F. Carr, Campbell and Black, P. A., appearing on behalf of the applicant. I have one witness who needs to be sworn. (Witness sworn.) 12 RANDOLPH C. SMITH being called as a witness and having been duly sworn upon 15 his oath, testified as follows, to-wit: 16 17 DIRECT EXAMINATION 18 BY MR. CARR: 19 Q. Will you please state your full name and 20 place of residence? 21 My name is Randolph C. Smith and I live 22 in Midland, Texas. 23 By whom are you employed and in what 24 capacity? With Harvey E. Yates Company as an

exploration geologist. Have you previously testified before the Commission and had your credentials accepted and made a matter of record? Yes, I have. You were qualified as an exploration geologist? 7 That's correct. Are you familiar with the application in this case and the general area that is involved? Yes, I am. 11 MR. CARR: Are the witness' qualification 12 acceptable? 13 MR. NUTTER: Yes, they are. Will you briefly state what Harvey E. 15 Yates is seeking with this application? 16 Harvey E. Yates Company is proposing to 17 re-enter this abandoned Superior Betenbough Well and side-18 track, directionally drill from 12,000 feet down through the 19 Austin-Mississippian zone for a new wildcat completion. 20 And the well is presently abandoned, is 21 that correct? 22 That is correct. 23 Will you now refer to what we have marked 24 Q, as Harvey E. Yates Company Exhibit Number One, and first, 25

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refer to the two plats on this exhibit and explain to the Examiner what they are and what they show?

Yes, I will. Mr. Examiner, the first plat on the lower lefthand portion of this exhibit consists of the unit outline for the proposed Betenbough Unit and its relationship to the producing field within the Tatum Basin in southeast New Mexico.

The outline immediately above that shows the unit outline on a more detailed ownership map with the existing well location indicated by the red arrow.

Does this plat also show the proposed bottom hole location?

Yes, it does.

And that is sort of inside the area

shaded yellow? 15

That is correct; just to the west of the

dry hole there. 17

What is the surface location of this Q.

well, Mr. Smith? 19

The location at the surface of the existing well is 660 from the north and 1980 from the west.

And the bottom hole location you propose

will be? 23

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	Q	And	what	acreage	is	to	be	dedicated	to
this	well?								

- A The 320-acre section in the north half of Section 32.
- Q And is this a standard spacing unit for the Austin-Mississippian Pool?
 - A Yes, it is.
- Q The bottom hole location after it's drilled, will that be an orthodox location?
 - A No, it will not.
- And it will actually be closer to the acreage to the west and it appears -- is this Harvey E.

 Yates who also controls that acreage?
 - A. That is correct.
- Q Will you now refer to the log on this exhibit and explain to the Examiner what it shows?
- A. Yes. This is a sonic log from Superior No. 1 Betenbough in Section 32 or 13, 36. Harvey E. Yates Company proposes to re-enter this well down to a depth of approximately 12,000 feet, sidetrack this, and drill a new hole down to a depth of around 13,600 or 13,700 feet.

We propose to test these colored sands as you see here colored in yellow in the Atoka section and also the Austin-Mississippian zone, which is colored in blue in the lower section of this log.

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Now, you're, let's see, you want to move away from the present bottom hole location for what reason?

The purpose of this directional drilling is to eliminate any damage that may have been done to the sands after drilling to them in the early '60s, to encounter a new reservoir, and also to encounter a new, clean reservoir in the Austin-Mississippian zone.

And it's your intention to go to 12,000 feet and then with a whipstock kick off at that point, is that correct?

That is correct.

Mr. Smith, would it be satisfactory to Harvey E. Yates Company for any order resulting from this hearing to authorize completing the well within a 100-foot target area surrounding your proposed location?

That is correct, yes.

Do you plan to run directional surveys on this well as required by Oil Conservation Division Rule 111?

Yes, we do.

Are you going to run a survey before you start the directional drilling or after, or both times?

We are going to run both. We are going to re-enter down to 12,000 feet, run a directional survey at that time, then kick it off, and drill the remainder of

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the well and watch during the whole drilling and run an additional survey, and tie it in all together for a bottom hole location after reaching TD.

And Harvey E. Yates controls all the offsetting acreage that could be affected by the directional hole?

A Yes, we do. We control all of the immediate acreage within that area.

In your opinion will granting this application be in the interest of conservation and the prevention of waste and the protection of correlative rights?

A. Yes, sir.

MR. CARR: At this time, Mr. Examiner, we would offer Harvey E. Yates Company Exhibit Number One.

MR. NUTTER: Exhibit One will be admitted

in evidence.

direct.

MR. CARR: I have nothing further on

BY MR. NUTTER:

Mr. Smith, you referred to it, and also the exhibit shows, that it's the proposed Betenbough Unit.

Has this unit been approved as yet, or formed?

CROSS EXAMINATION

A. Last month in the previous hearing we

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came up here with this similar exhibit to propose the unit, but it was --

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A -- whether or not it's been totally approved at this time, I don't know.

Q The Division has already had a hearing on the unit, though?

A. Yes. The reason for this hearing is because of the absence of advertising for the directional drilling, which was not mentioned in the previous hearing.

Oh, I see.

Now is there any casing in the well, do you know?

A Only very shallow surface casing.

So it's just a matter of after you get past that surface casing, re-entering the old plugged hole and drilling it out, whatever cement plugs are in there, and going to 12,000 feet and then kicking off for maybe 150 feet to the west, is that it?

A. That's correct, sir.

Now, what was the total depth that the well was originally drilled to?

It was originally a Devonian test and it was drilled to 14,780 feet.

14,000 what?

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Do you know whether they tested these Pennsylvanian zones you're looking at?

On the log here you see there's two drill stem tests, Drill Stem Test No. 4 and Drill Stem Test No. 5. The test results are to the left of those red DST intervals but they did not test our Austin-Mississippian zone, which you see in blue down there with porosity in the red.

I see. And that's your main target down there?

Both of these are our main target, yes, The -- you can see on the -- both the drill stem tests they used a considerable amount of water fishing. They had gas shows in both drill stem tests, but the pressures showed that there might have been some damage, and permeability is not as good in this particular spot.

And that was back in 19 --

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-- 64 and the techniques for completion Q. of these Pennsylvanian gas wells were not as perfected as they are today, is that it?

That's true.

MR. NUTTER: Are there any further

questions of the witness? He may be excused.

Do you have anything further, Mr. Carr?
MR. CARR: Nothing further, Mr. Nutter.

MR. NUTTER: Does anyone have anything they wish to offer in Case Number 68332

We'll take the case under advisement.

(Hearing concluded.)

MLLY W. BOYD, C.S.R.
R. J. Box 103.8
Santa Fe, Nov Mexico 87301
Phone (509) 455-7409

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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.

Snely W. Boyd C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 6833 heard by me on 1980.

Oil Conservation Division

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA PE, NEW MEXICO 12 March 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Harvey E. Yates Company for directional drilling, Lea County, New Mexico.

CASE 6833

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

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PANDOLPH C. SMITH

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Cross Examination by Mr. Nutter

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Yates Company for directional drilling, Lea County, New

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MR. PADILLA: Application of Harvey E.

MR. CARR: May it please the Examiner, I'm William F. Carr, Campbell and Black, P. A., appearing on behalf of the applicant. I have one witness who needs to be sworn.

(Witness sworn.)

RANDOLPH C. SMITH

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DIRECT EXAMINATION

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My name is Randolph C. Smith and I live in Midland, Texas.

Q, By whom are you employed and in what capacity?

With Harvey E. Yates Company as an

MALLY W. BOYD, C.S.R.	Rt. 1 Box 193-B	Santa Fe, New Mexico 57501	Phone (505) 455-7409	

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MR. NUTTER: Are there any further

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Do you have anything further, Mr. Carr? MR. CARR: Nothing further, Mr. Nutter. MR. NUTTER: Does anyone have anything they wish to offer in Case Number 6833?

We'll take the case under advisement.

(Hearing concluded.)

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.

> I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Cuse to 683 heard by me on 3/2 1980

er, Examiner Oll Conservation Division

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Docket No. 6-80

Dockets Nos. 8-80 and 9-80 are tentatively set for March 26 and April 9, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - TUESDAY - MARCH 11, 1930

OIL CONSERVATION COMMISSION - 9 A.H. - ROOM 205 STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

CASE 6609: (DE MOVO) (Continued and Readvertised)

Application of Napeco Inc. for pool creation and special pool rules, Eddy County, New Mexico.
Applicant, in the above-styled cause, seeks the creation of a new Strawn oil pool for its Benson
Deep Unit Well No. 1 located in Unit O of Section 33, Township 18 South, Range 30 East, and special
rules therefor, including 160-acre spacing and standard well locations.

Upon application of Yates Petroleum Corporation and Napeco Inc., this case will be heard De Novo pursuant to the provisions of Rule 1220. Applicants allege this is not an "oil" pool but is a "volatile" oil pool.

CASE 6823: Application of Amoco Production Company for 640-acre carbon dioxide gas well spacing, Harding, Quay, and Union Counties, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Rule 104 of the Division Rules and Regulations to require that wildcat and development carbon dioxide gas wells projected to the Tubb or older formations in Harding, Quay, and Union Counties must be located on 640-acre spacing and proration units, and must be located no nearer than 1650 feet to the outer boundary of the tract and not nearer than 330 feet to any interior quarter-quarter section line.

Docket No. 7-80

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 12, 1980

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

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

- ALLOWABLE: (1) Consideration of the allowable production of gas for April, 1980, from fifteen prorated pools in Lea, Eddy, and Chaves County, New Mexico.
 - (2) Consideration of the allowable production of gas for April, 1980, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.
- CASE 6813: (Continued from February 27, 1980, Examiner Hearing) (This case will be dismissed.)

Application of Petroleum Development Corporation to amend Order No. R-6196, Eddy County. New Mexico. Applicant, in the above-styled cause, seeks to amend Order No. R-6196 which authorized re-entry of a well at an unorthodox location in the Lusk-Morrow Gas Pool to be dedicated to the N/2 of Section 13, Township 19 South, Range 31 East. Applicant now seeks approval for a new revised location 750 feet from the North line and 660 feet from the West line of said Section 13.

CASE 6834: Application of Conoco Inc. for a dual completion and unorthodox well location, Lea County, New Mexico. (This case will be continued to March 26 and readvertised.)

Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its SEMU Burger Well No. 107 at an unorthodox location 2615 feet from the South and East lines of Section 24, Township 20 South, Range 38 East, to produce oil from the Blinebry Oil and Gas and Drinkard Pools.

CASE 6824: Application of American Trading and Production Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Talco Unit Area, comprising 4,800 acres, more or less, of State and Federal lands in Township 26 South, Range 35 East.

Examiner Hearing - Wednesday - Harch 12, 1980

Application of Florida Exploration Company for an unorthodox gas well location, Eddy County, New and Inc. and In Application of Florida Exploration Company for an unorthodox gas well location, Eddy County, New location of its mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox lines of Section Mexico. Applicant, in the above-styled cause, seeks approval for the North and East lines of Section Mexico. Applicant, in the above-styled cause, seeks approval for the North and East lines of Section Mexico. Applicant, in the above-styled cause, seeks approval for the North and East lines of Section Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of the unorthodox locatio CASE 6815: (Continued and Readvertised)

Application of Husky Oil Company for approval of infill drilling Lea County, New Mexico.

Applicant, in the above-styled cause, seeks a finding that the drilling of its North Shore Jalmat Applicant, in the above-styled cause, seeks a finding that the drilling of its North Shore Jalmat Applicant, in the above-styled cause, seeks a finding that the drilling of its North Shore Hool, a finding that the drilling of its North Shore Hool, which worth Well No. 5 to be located in Unit E of Section 33, Township 24, South, Range 37 East, Jalmat Hool, is necessary to effectively and efficiently drain that portion of the proration unit which Pool, is necessary to effectively and efficiently drain that portion of the proration unit which Pool, is necessary to effectively and efficiently drain that portion of the provided the provided that the drilling of its North Shore Hool—applicant, in the above-styled cause, seeks a finding that the drilling of its North Shore Hool—applicant, in the above-styled cause, seeks a finding that the drilling of its North Shore Hool—applicant, in the above-styled cause, seeks a finding that the drilling of its North Shore Hool—applicant, in the above-styled cause, seeks a finding that the drilling of its North Shore Hool—applicant, in the above-styled cause, seeks a finding that the drilling of its North Shore Hool—applicant Hool—ap worth Well No. 5 to be located in Unit E of Section 33, Township 24 South, Range 37 East, Jalmat Pool, is necessary to effectively and efficiently drain that portion of the proration unit which cannot be so drained by the existing well.

Application of Tahoe Oil and Cattle Company for compulsory pooling, Lea County, New Mexico.

Application of Tahoe Oil and Cattle Company for compulsory pooling all mineral interests in the P Application of Tahoe Oil and Cattle Company for compulsory pooling, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Penrose of Skelly Pool underlying the SE/4 SE/4 of Section 25, Township 21 South, Range 36 East, to be considered will be the cost of Skelly Pool underlying the SE/4 SE/4 of Section 25, Township 21 South, Range 36 East, to be considered will be the cost of Skelly Pool underlying the SE/4 SE/4 of Section 25, Township 21 South, Range 36 East, to be dedicated to the section 25 township 21 South, Range 36 East, to be dedicated to the section 25 township 21 South, Range 36 East, to be dedicated to the section 25 township 21 South, Range 36 East, to be dedicated to the section 25 township 21 South, Range 36 East, to be dedicated to the section 25 township 21 South, Range 36 East, to be dedicated to the section 25 township 21 South, Range 36 East, to be dedicated to the section 25 township 21 South, Range 36 East, to be dedicated to the section 25 township 21 South, Range 36 East, to be dedicated to the section 25 township 21 South, Range 36 East, to be dedicated to the section 25 township 21 South, Range 36 East, to be dedicated to the section 25 township 21 South, Range 36 East, to be dedicated to the section 25 township 21 South, Range 36 East, to be dedicated to the section 25 township 21 South, Range 36 East, to be dedicated to the section 25 township 21 South, Range 36 East, to be dedicated to the section 25 township 25 township 25 township 25 township 25 township 25 township 26 township 27 townsh cannot be so drained by the existing well. cated to its Browlee Well No. 1 located thereon. Also to be considered will be the cost of recompleting 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 recompleting said well. and charges for supervision. Also to be considered will be the designation of operator of the well and a charge for risk involved in recompleting said well. CASE 6826:

Application of Consolidated Oil & Gas, Inc. for compulsory pooling, San Juan County, New Mexico.

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Application of Consolidated Oil & Gas, Inc. for compulsory pooling, San Juan County, New Mexico.

Application of Consolidated Oil & Gas, Inc. for compulsory pooling, San Juan County, N formation underlying the SE/4 of Section 2, Township 30 North, Range 12 West, and in the Mesav formation underlying the SE/4 of Section 2, to be dedicated to a well to be drilled at a section underlying the S/2 of said Section 2, to be the cost of drilling and completing at a standard location thereon. Also to be considered will be the cost of drilling and completing at a standard location thereon. formation underlying the S/2 of said Section 2, to be dedicated to a well to be drilled at a said seamdard 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 well and the allocation of the cost thereof as well as actual operation of applicanc as operator of the well supervision. Also to be considered will be the designation of applicanc as operator of the supervision. Also to be considered will be the designation of applicanc as operator of the supervision. Also to be considered will be the designation of applicanc as operator of the supervision. Also to be considered will be the designation of applicanc as operator of the supervision. Also to be considered will be the designation of applicanc as operator of the supervision. Also to be considered will be the cost of drilling and completing said and the allocation of the cost of the supervision. Also to be considered will be the designation of applicance as operator of the supervision. Also to be considered will be the designation of applicance and the supervision. Also to be considered will be the designation of applicance and the supervision of the supervision and the supervision and the supervision of the supervision and the supervision of the supervision and the supervision of CASE 6827: supervision. Also to be considered will be the designation of the considered will be the considered will be the designation of the considered will be the considered will be the designation of the considered will be the designation of the considered will be the considered

Application of Etheldred T. Ross for three non-standard gas proration units, Harding County, New Mexico. Applicant, in the above-styled cause, seeks approval of the three following non-standard Application of Etheldred T. Ross for three non-standard gas proration units, Harding County, New Mexico. Applicant, in the above-styled cause, seeks approval of the three unit comprising the M/2 NW/4 gas proration units, all in Township 19 North, Range 30 East: a 40-acre unit comprising the N/2 NW/4 NE/4 of Section 12; and two 80-acre units in Section 14, the first comprising the N/2 SE/4; each of said units would be dedicated to a well to be and the second comprising the N/2 SE/4; each of said units would be dedicated to a well to drilled to the Tubb formation at a standard location thereon. CASE 6828: and the second comprising the N/L SE/4; each or said units would drilled to the Tubb formation at a standard location thereon.

Application of Alpha Twenty-One Production Company for approval of infill drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks findings that the drilling of its El Paso Tom Application of Alpha Twenty-One Production Company for approval of infill drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks findings that the drilling of its El Paso Tom Mexico. Applicant, in the above-styled cause, seeks findings that the drilling of its El Paso Tom Mexico. Applicant, in the above-styled cause, seeks findings that the drilling of its El Paso Tom Mexico. Applicant, in the above-styled cause, seeks findings that the drilling of its El Paso Tom Section 33, Township 25 Mexico. Applicant, in the above-styled cause, seeks findings that the drilling of its El Paso Tom Section 33, Township 25 Mexico. Applicant, in the above-styled cause, seeks findings that the drilling of its El Paso Tom Mexico. Applicant, in the above-styled cause, seeks findings that the drilling of its El Paso Tom Mexico. Applicant, in the above-styled cause, seeks findings that the drilling of its El Paso Tom Section 33, Township 25 Mexico. Applicant, in the above-styled cause, seeks findings that the drilling of its El Paso Tom Section 33, Township 25 Mexico. Applicant, in the above-styled cause, seeks findings that the drilling of its El Paso Tom Section 33, Township 25 Mexico. Applicant, in the above-styled cause, seeks findings that the drilling of its El Paso Tom Section 33, Township 25 Mexico. Applicant is a section 33, Township 25 Mexico. Applicant is a section 34, Township 25 Mexico. Applicant is a section 35, Township 25 Mexico. Applicant is a section 36, Township 25 Mexico. Applicant is a section 36, Township 25 Mexico. Applicant i CASE 6829:

Application of Enserch Exploration, Inc. for special pool rules or, in the alternative, a special pool rules or, in the above-styled cause, seeks an order gas-oil ratio. Roosevelt County, New Mexico. Application of Enserch Exploration, Inc. for special pool rules or, in the alternative, a special gas-oil ratio, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks an order promulgating, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks an order gas-oil ratio, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks an order gas-oil ratio, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks an order gas-oil ratio of 4,000 to 1, or in the alternative. establishing a special gas-oil ratio of 4,000 to 1, or in the alternative. promulgating special pool rules for the South Peterson-Pennsylvanian Field including a special of 4,000 to 1, or in the alternative, establishing a special gas-oil ratio of 4,000 to 1, or in the alternative of Section 31, Township 5 South, Range 33 East to 1 for its Lambirth Well No. 3, located in Unit G of Section 31, Township 5 South, Range 33 East to 1 for its Lambirth Well No. 3, located in Unit G of Section 31, Township 5 South, Range 33 East to 1 for its Lambirth Well No. 3, located in Unit G of Section 31, Township 5 South, Range 33 East to 1 for its Lambirth Well No. 3, located in Unit G of Section 31, Township 5 South, Range 33 East to 1 for its Lambirth Well No. 3, located in Unit G of Section 31, Township 5 South, Range 33 East to 1 for its Lambirth Well No. 3, located in Unit G of Section 31, Township 5 South, Range 33 East to 1 for its Lambirth Well No. 3, located in Unit G of Section 31, Township 5 South, Range 33 East to 1 for its Lambirth Well No. 3, located in Unit G of Section 31, Township 5 South, Range 33 East to 1 for its Lambirth Well No. 3, located in Unit G of Section 31, Township 5 South, Range 33 East to 1 for its Lambirth Well No. 3, located in Unit G of Section 31, Township 5 South, Range 33 East to 1 for its Lambirth Well No. 3, located in Unit G of Section 31, Township 5 South, Range 33 East to 1 for its Lambirth Well No. 3, located in Unit G of Section 31, Township 5 South Section 31

Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Seeks approval for the recompletion of its State Mexico. Applicant, in the above-styled cause. Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the recompletion of its State Mexico. Applicant, in the above-styled cause, such an unorthodox location 660 feet from the Wolfcamp thru Cisco formations at an unorthodox location 660 feet from the Wolfcamp thru Cisco formations at an unorthodox location 660 feet from the Wolfcamp thru Cisco formations at an unorthodox location 660 feet from the wolfcamp thru Cisco formations at an unorthodox location, Eddy County, New Mexico. Mexico. Applicant, in the above-styled cause, seeks approval for the recompletion of its State from the "JM" Well No. 1 in the Wolfcamp thru Gisco formations at an unorthodox location 660 feet from the North and East lines of Section 25, Township 18 South, Range 24 East, the N/2 of said Section 25 to be dedicated to the well. CASE 6831:

Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New seeks approval for the recompletion of its Cities Mexico. Applicant. in the above-styled cause, seeks approval Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, geeks approval for the recompletion of its Cities Mexico. Applicant, in the above-styled cause, geeks approval for the recompletion 660 feet from the "JG" Well No. 1 in the Wolfcamp thru Cisco formations at an unorthodox location 60 section 13 well No. 1 in the Wolfcamp thru Cisco formations at an unorthodox location 60 section 13. Township 18 South. Range 24 East. the E/2 of said Section 13 South and East lines of Section 13. "JG" Well No. 1 in the Wolfcamp thru Cisco formations at an unorthodox location 660 feet from the South and East lines of Section 13, Township 18 South, Range 24 East, the E/2 of said Section 13 to be dedicated to the well. to be dedicated to the well. CASE 6832:

Application of Harvey E. Yates Company for directional drilling, Lea County, New Mexico. Well its Betenbough West to directionally drill its Betenbough West to directionally drill its Betenbough West in the above-styled cause, seeks authority to directionally drill its Betenbough West Applicant, in the above-styled cause, seeks authority the North line and 1980 feet from it within North in such a manner as to bottom it within No. 1, the surface location of which is 660 feet from the such a manner as to bottom it within No. 1, the surface location of which is 860 feet from the West line of said Section 100 feet of a point 660 feet from the North line and 1830 feet from the West line of 100 feet of a point 660 feet from the North line and 1830 feet from the West line of 100 feet of a point 660 feet from the North line and 1830 feet from the West line of 100 feet of a point 660 feet from the North line and 1830 feet from the West line of 100 feet of a point 660 feet from the North line and 1830 feet from the West line of 100 feet of a point 660 feet from the North line and 1830 feet from the West line of 100 feet of a point 660 feet from the North line and 1830 feet from the West line of 100 feet of a point 660 feet from the North line and 1830 feet from the West line of 100 feet of a point 660 feet from the North line and 1830 feet from the West line of 100 feet of a point 660 feet from the North line and 1830 feet from the West line of 100 feet of CASE 6833:

Page 3 of 3 Examiner Hearing - Wednesday - March 12, 1980

Docket No. 7-80

CASE 6818: (Continued from February 27, 1980, Examiner Hearing)

Application of Tenneco Oil Company for an MGPA determination, Eddy County, New Hexico.

Applicant, in the above-styled cause, seeks a new onshore reservoir determination for its State HL

II Well No. 1 located in Unit N of Section 11, Township 19 South, Range 29 East.

- CASE 6835: Application of Anadarko Production Company for an NGPA determination, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks a new onshore reservoir determination for its New Mexico State "AB" Com. Well No. 1 located in Unit H of Section 36, Township 18 South, Range 28 Bast.
- CASE 6836: Application of Anadarko Production Company for an NGPA determination, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks a new onshore reservoir determination for its New Mexico "AA" State Well No. 1 located in Unit F of Section 35, Township 18 South, Range 28 East.
- CASE 6837: 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 6819: (Continued from February 27, 1980, Examiner Hearing)

Application of V-F Petroleum, Inc. for compulsory pooling, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the McKee or

Devonian formations, or both, underlying four 40-acre units, being the SE/4 SE/4, NE/4 SE/4, NW/4

SE/4, and SW/4 SE/4 of Section 21, Township 23 South, Range 37 East, North Teague Field, each to

be dedicated to a well to be drilled at a standard location thereon. Also to be considered will

be the cost of drilling and completing said wells and the allocation of the cost thereof as well

as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the wells and a charge for risk involved in drilling said wells.

)

HEYCO



HARVEY E. YATES COMPANY

PETROLEUM PRODUCERS

P. O. BOX 1933

SUITE 300, SECURITY NATIONAL BANK BUILDING

505/623-6601

ROSWELL, NEW MEXICO 88201

February 22, 1980

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

Case 6833

Attention: Mr. Richard Stamets

Re: Application for

Directional Drilling

N/2 Section 32,

T-13S R-36E, N.M.P.M. Lea County, New Mexico

Dear Mr. Stamets:

Enclosed please find a written application for directional drilling to be filed on behalf of Harvey E. Yates Company. As we discussed by telephone, this matter is being advertised for hearing on the March 12, 1980 docket, and I would appreciate receiving a copy of the same. Thank you.

Sincerely,

Robert H. Strand

Attorney

RHS/lh OCD #18

Enclosure

FEB 2 6 1980

OIL CONSERVATION DIVISION SANTA FE

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

IN THE MATTER OF THE APPLICATION OF HARVEY E, YATES COMPANY FOR DIRECTIONAL DRILLING LEA COUNTY, NEW MEXICO

CASE NO. 6833

APPLICATION

COMES NOW HARVEY E. YATES COMPANY by its attorney and respectfully states:

1. Applicant is the operator of the Austin Mississippian formation underlying:

Township 13 South, Range 36 East, N.M.P.M.

Section 32: N/2

Lea County, New Mexico

- 2. Applicant proposes to reenter the abandoned Superior Betenbough #1 Well located at 660 feet from the North line and 1,980 feet from the West line of said Section 32, Township 13 South, Range 36 East with the intent of testing the Austin Mississippian formation at an approximate depth of 13,900 feet.
- 3. Applicant's experience would suggest that the Atoka Sands and the Austin Mississippian formations maybe damaged in the vicinity of the existing well bore. Applicant proposes to utilize the existing well bore to a depth of 12,000 feet, and at that point set a whipstock and directionally drill in a westerly direction to an anticipated completion location of 660 FNL and 1,830 FWL of said Section 32, at a subsurface depth of 13,900 feet, thereby exposing clean formation for testing.
- 4. Applicant by this Application seeks permission pursuant to Rule 111 of the Rules of the Oil Conservation Division, to carry out the above described directional drilling operations, subject to the requirements of said rule and any order entered by the Division.

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

IN THE MATTER OF THE APPLICATION OF HARVEY E. YATES COMPANY FOR DIRECTIONAL DRILLING

CASE NO. 6833

LEA COUNTY, NEW MEXICO

APPLICATION

COMES NOW HARVEY E. YATES COMPANY by its attorney and respectfully states:

1. Applicant is the operator of the Austin Mississippian formation underlying:

Township 13 South, Range 36 East, N.M.P.M.

Section 32: N/2

Lea County, New Mexico

- 2. Applicant proposes to reenter the abandoned Superior Betenbough #1 Well located at 660 feet from the North line and 1,980 feet from the West line of said Section 32, Township 13 South, Range 36 East with the intent of testing the Austin Mississippian formation at an approximate depth of 13,900 feet.
- 3. Applicant's experience would suggest that the Atoka Sands and the Austin Mississippian formations maybe damaged in the vicinity of the existing well bore. Applicant proposes to utilize the existing well bore to a depth of 12,000 feet, and at that point set a whipstock and directionally drill in a westerly direction to an anticipated completion location of 660 FNL and 1,830 FWL of said Section 32, at a subsurface depth of 13,900 feet, thereby exposing clean formation for testing.
- 4. Applicant by this Application seeks permission pursuant to Rule 111 of the Rules of the Oil Conservation Division, to carry out the above described directional drilling operations, subject to the requirements of said rule and any order entered by the Division.

- 5. A standard 320 acre gas proration unit comprising the N/2 of said Section 32 should be dedicated to said well.
- 6. The approval of this application will prevent the excessive risk and economic loss caused by drilling of unnecessary wells, and will otherwise promote conservation, prevent waste and protect correlative rights.

WHEREFORE, Applicant prays:

- A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by law.
- B. That upon such hearing, the Division enter its order granting applicant permission to carry out directional drilling operations as described above and to dedicate the N/2 of Section 32, Township 13 South Range 36 East, to said well.
 - C. For such further relief as the Division deems just and proper.

DATED this 25kd day of February, 1980.

HARVEY E. YATES COMPANY

Bv:

Robert H. Strand

Attorney for Applicant

P. O. Box 1933

Roswell, New Mexico 88201

RHS/1h OCD #17

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

IN THE MATTER OF THE APPLICATION OF HARVEY E. YATES COMPANY FOR DIRECTIONAL DRILLING

CASE NO. 6833

LEA COUNTY, NEW MEXICO

APPLICATION

COMES NOW HARVEY E. YATES COMPANY by its attorney and respectfully states:

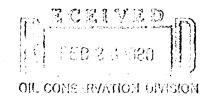
1. Applicant is the operator of the Austin Mississippian formation underlying:

Township 13 South, Range 36 East, N.M.P.M.

Section 32: N/2

Lea County, New Mexico

- 2. Applicant proposes to reenter the abandoned Superior Betenbough #1 Well located at 660 feet from the North line and 1,980 feet from the West line of said Section 32, Township 13 South, Range 36 East with the intent of testing the Austin Mississippian formation at an approximate depth of 13,900 feet.
- 3. Applicant's experience would suggest that the Atoka Sands and the Austin Mississippian formations maybe damaged in the vicinity of the existing well bore. Applicant proposes to utilize the existing well bore to a depth of 12,000 feet, and at that point set a whipstock and directionally drill in a westerly direction to an anticipated completion location of 660 FNL and 1,830 FWL of said Section 32, at a subsurface depth of 13,900 feet, thereby exposing clean formation for testing.
- 4. Applicant by this Application seeks permission pursuant to Rule 111 of the Rules of the Oil Conservation Division, to carry out the above described directional drilling operations, subject to the requirements of said rule and any order entered by the Division.



- 5. A standard 320 acre gas proration unit comprising the N/2 of said Section 32 should be dedicated to said well.
- 6. The approval of this application will prevent the excessive risk and economic loss caused by drilling of unnecessary wells, and will otherwise promote conservation, prevent waste and protect correlative rights.

WHEREFORE, Applicant prays:

- A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by
- B. That upon such hearing, the Division enter its order law. granting applicant permission to carry out directional drilling operations as described above and to dedicate the N/2 of Section 32, Township 13 South Range 36 East, to said well.
 - C. For such further relief as the Division deems just and proper.

DATED this 25k day of February, 1980.

HARVEY E. YATES COMPANY

Attorney for Applicant

P. O. Box 1933

Roswell, New Mexico 88201

RHS/1h OCD #17

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

IN THE MATTER OF THE APPLICATION OF HARVEY E. YATES COMPANY FOR DIRECTIONAL DRILLING LEA COUNTY, NEW MEXICO

CASE NO. 6833

APPLICATION

COMES NOW HARVEY E. YATES COMPANY by its attorney and respectfully states:

1. Applicant is the operator of the Austin Mississippian formation underlying:

Township 13 South, Range 36 East, N.M.P.M.

Section 32: N/2

Lea County, New Mexico

- 2. Applicant proposes to reenter the abandoned Superior Betenbough #1 Well located at 660 feet from the North line and 1,980 feet from the West line of said Section 32, Township 13 South, Range 36 East with the intent of testing the Austin Mississippian formation at an approximate depth of 13,900 feet.
- 3. Applicant's experience would suggest that the Atoka Sands and the Austin Mississippian formations maybe damaged in the vicinity of the existing well bore. Applicant proposes to utilize the existing well bore to a depth of 12,000 feet, and at that point set a whipstock and directionally drill in a westerly direction to an anticipated completion location of 660 FNL and 1,830 FWL of said Section 32, at a subsurface depth of 13,900 feet, thereby exposing clean formation for testing.
- 4. Applicant by this Application seeks permission pursuant to Rule 111 of the Rules of the Oil Conservation Division, to carry out the above described directional drilling operations, subject to the requirements of said rule and any order entered by the Division.



- 5. A standard 320 acre gas proration unit comprising the N/2 of said Section 32 should be dedicated to said well.
- 6. The approval of this application will prevent the excessive risk and economic loss caused by drilling of unnecessary wells, and will otherwise promote conservation, prevent waste and protect correlative rights.

WHEREFORE, Applicant prays:

- A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by law.
- B. That upon such hearing, the Division enter its order granting applicant permission to carry out directional drilling operations as described above and to dedicate the N/2 of Section 32, Township 13 South Range 36 East, to said well.
 - C. For such further relief as the Division deems just and proper.

DATED this 25% day of February, 1980.

HARVEY E. YATES COMPANY

By:

Robert H. Strand Attorney for Applicant

P. O. Box 1933

Roswell, New Mexico 88201

RHS/lh OCD #17

Poplication of Horvey & Yater Company for directional drilling, Bustin Mississipian Pool, Les County Reenter old Superior Oil Co Betenbough Well Nel located \$660N 32-7135-R36E Lea Co Clean out to 12000' setwhips tock and drill to a point within 600' of a point 660 N 183020 of Baid Section 32 Thistin Mississippian Pool N/2 of said sect 32 dedicated Phoned in by Bob Strand 2-20-80

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.

6833

Order No.

R-6303

APPLICATION OF HARVEY E. YATES COMPANY FOR DIRECTIONAL DRILLING, LEA COUNTY, NEW MEXICO.

Den

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on March 12

19 80 , at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

WOW, on this _____ day of __March ___, 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, Harvey E. Yates Company, seeks approval for the directional drilling of its Betenbough Well No. 1, the surface location of which is 660 feet from the North line and 1980 feet from the West line of Section 32, Township 13

All Market and Market

South, Range 36 East, Lea County, New Mexico, in such a manner as to bottom it within 100 feet of a point 660 feet from the North line and 1830 feet from the West line of said Section 32 in the Austin-Mississippian Pool.

(3) That the applicant should be required to determine the subsurface location of the kick-off point prior to directional drilling, and to determine the subsurface location of the bottom of the hole by means of a continuous multi-shot directional survey conducted subsequent to said directional drilling, if said well is to be completed as a producing well.

IT IS THEREFORE ORDERED:

authorized to support the Support of the North line and 1980 feet from the West line of Section 32, Township 13 South, Range 36 East, in such a manner as to bottom it within 100 feet of apoint 660 feet from the North line and 1830 feet from the North line and 1830 feet from the North line and 1830 feet from the Adoption 32 in the Austin-Mississippian Pool.

PROVIDED FURTING that subsequent to the above-described directional drilling, should said well be a producer, a continuous multi-shot directional survey shall be made of the wellbore from total depth to the kick-off point with shot points not more than 100 feet apart; that the operator shall cause the surveying company to forward a copy of the survey report directly

to the Santa Fe office of the Division, P. O. Box 2088, Santa Fe,

New Mexico, and that the operator shall notify the Division's

Hobbs District Office of the date and time said survey is to be

(2) That Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depths in addition to measured depths.

PROVIDED However that prior to directional drilling the sperator shall determine the surusurface location of the Rick-off point; and

HMPM, Roa County, N

commenced.

(3) 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.