CASE NO.

6389

APPlication,
Transcripts,
Small Exhibits,

ETC.

JASPER and BUELL

Attorneys

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John G. Jasper Summer G. Buell

November 14, 1978

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

Re: Application of Durham Inc.

Case No. 6389

Gentlemen:

On behalf of David Fasken, the operator in Section 9, T 21 S, R 24 E, we support the application of Durham Inc. in the above referenced case.

We do feel that the Cemetery Morrow Gas Pool should be extended to the south line of Section 8, T 21 S, R 24 E, NMPM and the Indian Basin Morrow Gas Pool contracted accordingly.

Jasper and Buell

SUMNER G. BUE

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cc: Richard Brocks, Esq. Conrad Coffield, Esq.

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION State Land Office Building Santa Fe, New Mexico 21 November 1978

EXAMINER HEARING

IN THE MATTER OF:

Application of Durham, Inc., for pool contraction and extension, Eddy County, New Mexico.

CASE 6389

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Lynn Teschendorf, Esq. Legal Counsel for the Division State Land Office Bldg. Santa Fe, New Mexico 87501

For the Applicant:

Conrad Coffield, Esq. HINKLE, COX, EATON, COFFIELD & HENSLEY Midland, Texas

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MR. NUTTER: We'll call next Case 6389.

MS. TESCHENDORF: Case 6389. Application of Durham, Inc., for pool contraction and extension, Eddy County, New Mexico.

MR. COFFIELD: Conrad Coffield with the Hinkle law firm, appearing on behalf of Durham, Inc.

I have two witnesses.

(Witnesses sworn.)

PETER MICHAELSON

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

DIRECT EXAMINATION

BY MR. COFFIELD:

- Q Would you please state your name, address, occupation and employer?
- A. Peter Michaelson, 2413 Camarie, Midland.

 Currently employed by Burham, Incorporated as Exploration

 Manager.
- Q Mr. Michaelson, are you familiar with the application of Durham, Inc., in this case?
 - A Yes, sir, I am.
- Q Have you previously testified before the Oil Conservation Division as a geologist?

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Q All right, would you please outline for the Examiner a brief history of your educational background and work experience?

A I graduated from the University of Wisconsin at Madison in 1972 with a Masters degree. Since that time I've been employed by Getty Oil Company, Tenneco Oil Company, Texas Oil and Gas, and Durham, Incorporated, and I've worked at various exploration and development projects in the Permian Basin.

MR. COFFIELD: Are the witness' qualifications acceptable, Mr. Examiner?

MR. NUTTER: Yes, they are.

Q Mr. Michaelson, would you please state what Durham, Inc., seeks by its application?

A Durham, Incorporated, seeks the contraction of the Indian Basin Morrow Gas Pool by the deletion of the north half of Section 8, Township 21 South, Range 24 East, Eddy County, New Mexico, or in the alternative, all of Section 8, and extension of the Cemetery Morrow Gas Pool to include the north half or all of Section 8.

a All right, Mr. Michaelson, would you please refer to what's been marked as Exhibit One, identify this, and explain what it represents?

A Exhibit One is a land plat of the Cemetery

and Indian Basin area with the acreage controlled by Durham, Incorporated, shown in yellow.

It also shows other mineral leaseholders in the area.

- And from this we are showing that Durham, Incorporated, has -- owns or has control of the north half as well as the southeast quarter of Section 8.
 - That is correct.
- All right, Mr. Michaelson, please refer to what has been marked as Exhibit Two and explain this.
- Exhibit Two is my interpretation of the structure of the Cemetery Pooled area. It is contoured on top of the main pay in the Cemetery and Indian Basin area.

Interpretation shows the north plunging anticline bounded on the west side by up to the west fault, which also controls production.

It also shows our proposed location in the north half of Section 8 at a standard 660/1980 location.

- Anything further on this exhibit, Mr. Michaelson?
 - Nothing.
- Okay, go on to what's been marked as Exhibit Three and explain what that represents.
- Exhibit Number Three is an Isopach. pay is -- it produces in the Cemetery and Indian Basin Field.

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The Cemetary Sand is colored in yellow with the Indian Basin Sand colored in red.

Also indicated here is the respective gas/ water contacts for each sand. In addition the bottom hole pressures of the main sands at the minus 5700 datum and the date the pressure obtained, is also present.

This sand — or this map shows our interpretation of this particular area to be two separate reservoirs, separated by either shale or an inpermeable sand immediately north of the Corinne Grace Well in Section 8.

This interpretation of two sands is supported by the different gas/water contacts, as evidenced by the Corinne Grace Well and the test of water in the David Faskin Mobil 10 Federal, Section 10, at a minus 5700 foot datum for the Indian Basin Pool.

The gas/water contact in the Cemetery Field is established by the Mobil No. 1 Federal "B" in Section 10 and also by a fault which runs essentially north/south at the western edge of the field. The fault is substantiated by the fact that the Depco well in Section 6 is structurally high and wet to the Shell well in the northern part of Section 6.

This map also shows that the remaining gas reserves in Section 8 are under the north half of the section with the south half being most probably water productive.

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MR. NUTTER: Mr. Michaelson, I'm looking at -you're on Exhibit Three, right?

A Yes, sir.

MR. NUTTER: Okay, I'm on Exhibit Three and I have this Isopach here colored yellow and this one down here colored --

A Yes, sir.

MR NUTTER: -- pink or something, but these aren't colored. Now, --

A. Well, the Cemetery Sand should be colored yellow and the Indian Basin Sand colored red. I'm sorry.

MR. NUTTER: Okay. I'll say red here and yellow here.

Go ahead.

- Q Anything further on this exhibit?
- A I have nothing further on this.
- Q Okay, then go on to Exhibit -- what's been marked as Exhibit Four, and explain what that is and what it represents relative to our application.
- A. Exhibit Four is Cross Section A-to-Aprime, as indicated on Exhibit Three. It is designed to show the two different sands present in this area.

As we start to the south on -- which is called A-prime, you'll note the David Faskin Skelly Federal is -- has a sand section colored in red, which is interpreted to

be the Indian Basin Sand. The things to note to substantiate the difference is a very low porosity permeability indicated in both the David Faskin and Corinne Grace Wells.

This also shows the gas/water contact at approximately a minue 5700 foot datum for this particular sand.

As we go northward, slightly westward, we -the interpretation shows an impermeable barrier between the
two sands and the proposed location of the Durham Shell
Federal No. 1-8.

The proposed location should be structurally high to the David Faskin Shell Gas Com in Section 5 and structurally high to the Shell Oil Federal 6 in Section 6.

As you go southward from the Shell Federal

6. you cross the fault, which is up to the west and encounter
a water-wet sand in the Depco Shell Federal. We believe it
to be the same sand because of the very similar porosity
and permeability calculations as shown by electric logs.

I have nothing further to say about this cross section.

All right. Let's go on, then, if you please, to what has been marked as Exhibit Five and explain what that exhibit is.

A Exhibit Number Five is a stratigraphic section B-to-Bprime, as illustrated on Exhibit Three.

It is hung on top of the Cemetery Field pay sand and goes from the Faskin Mobil 10 Federal to the Mobil No. 1-B Federal, both in Section 10.

This cross section is designed to show the marked differences between the Indian Hills Sand, colored in red on the left, and the Cemetery Field pay sand, colored in yellow on the right.

Please note the Faskin No. 1 Mobil 10

Federal, the pay section is -- to the equivalent section has a very tight, limey sandstone at the top with a slightly cleaner sand beneath it, separated by a shale stringer.

The porosity is very low in both sand members.

Also note the very excellent porosity in the Mobil No. 1-V Federal Unit, which is equivalent to the Cemetery Field pay sand.

Both particular wells are wet but it does show the marked difference in the two reservoirs.

- Q All right, now let's go on to Exhibit Six.
 Please explain this exhibit and what it represents.
- A Exhibit Number Six is a log calculation comparison between the Indian Basin Field sands to the south and the Cemetery Field sands to the north.

The Group Number One wells include the Corinne Grace Indian Hills No. 1, in Section 8: the Faskin Skelly Federal, in Section 9; and the Faskin Mobil 10 Fed-

eral, in Section 10.

All three wells are interpreted to be within the Indian Hills Reservoir and show an average porosity of 90 percent; and average gamma ray API units of 32.

terpreted to be in the Cemetery Field area. The Depco and Shell wells in Section 6; the Faskin wells in Sections 4 and 5; and the Mobil No. 1 Federal V Unit in Section 10.

These wells average 16 percent with a gamma ray API unit of 26. You'll note the comparison between the average porosities, averaging 7 percent higher, the Cemetery Sand, and a 6 API unit cleaner on the gamma ray cutoffs; again designed to show the marked differences between the two sands.

Nothing further on this exhibit.

Okay. Mr. Michaelson, if this, as you noted, this application is stated in the alternative, does Durham, Incorporated, have a preference as to how they would like for the order, if the Commission sees fit to grant such an order, be --

A. We would prefer all of Section 8 to be put into the Cemetery Pool rather than just the north half to be put into the pool.

Q If the Oil Conservation Division sees fit to grant the application, does Durham, Incorporated, propose

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to drill a well in this section?

A Yes, they do, in the north half at a standard location, as shown on Exhibit Three.

Q If the application is approved, will the change, the proposed change of the field rules, as affects Section 8, affect the dedication of any producing well?

A It will not.

Q Mr. Michaelson, were Exhibits One through Six prepared by you or under your supervision?

A. Yes, they were.

And in your opinion, if the application is granted, would the requested order be in the interest of prevention of waste, the protection of correlative rights, and the promotion of conservation?

A Yes, it would.

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

MR. NUTTER: Applicant's Exhibits One through Six will be admitted in evidence.

MR. COFFIELD: And I have no further questions of this witness on direct.

CROSS EXAMINATION

BY MR. NUTTER:

Mr. Michaelson, looking at these two wells

that are presently located in Section 3 and 9, now the Corinne Grace well on your Exhibit Number Three, appears to be west of a heavy line which runs southwest-northeast.

What does that line depict? It's at minus 5700,

A It depicts the gas/water contact as I interpret it for the Indian Basin Sand in this particular area.

Q So then, in your opinion, and based on this exhibit, there is some Indian Basin Sand present in the south half of Section 8 but the westernmost two-thirds of it is under water.

you probably are aware, very hard to come by and fairly confusing for the most part. Apparently the Corinne Grace well has tested the main pay in Section 8; however, it was they perforated, you know, many sands within the Corinne Grace well. The log calculations on that well show just slightly over 50 percent water saturation for the main pay, and that's why I interpreted the minus 5700 datum. However, I would hesitate to condemn the entire south half based on datum we now have.

Q Well now, the well is not producing at the present time, though?

A It's not. I believe its classification is temporarily abandoned.

Q Do you know what the cumulative production on

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the well is?

- A Approximately 209 cubic feet of gas.
- Q Okay, now how about this well in the southwest quarter of Section 9? What's the status of it?
- A The -- that particular well apprently is producing at a very low volume. Les Skinner, our engineer, who will testify will have exact data concerning that well. It's producing from the Indian Basin Sand at just very low rates at the present time with a cumulative of approximately 2 Bcf.
 - Q About 2-billion. Does it produce water?
 - A. I believe it does, yes.
- Now do you have any well that is actually drilled in this so-called impermeable section?
- A. No, the permeable separation is interpreted by the -- number one, by the distinct difference in the gas/water contact of the two sands; also, the log quality of the two sands is so markedly different that we feel if they were connected they would have the same gas/water contact.
- Q There's such a radical difference that you feel there's some facies change there --
- A Right, also the ultimate cumulative recoveries which will be shown in a later exhibit will also illustrate the different character of the two sands.

So just based on the gas/water contact being

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radically different, we feel that they have to be -- there has to be separation, between those wells.

I think if I could refer to Exhibit Number Five, you'll note the Faskin well has a shale streak.

- Q Now which Faskin well are you referring to?
- A. This is the Faskin No. 1 Mobil 10 on Exhibit Number Five, the lefthand well.

It has a shale stringer right between the two sands and it's very probable that this shale stringer could represent the edge of the impermeable separation between the two sands.

- Q Now, Durham, Inc., has recently acquired a lease on the southeast quarter of Section 8, is that correct?
 - A. That is correct.
- And I believe that the Marathon and Shell own the remainder of Section 8, so now does Durham have an arrangement with Marathon and Shell for the remainder of those lands in Section 8?
- A As shown on Exhibit One, we now control the north half of Section 8 with Marathon retaining their interest in the southwest one quarter.
- Q I see, so you have leased or farmed out cr something --
 - A. That is correct.
 - Q -- the Shell acreage in the north half.

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- And you would seek that the entire Section 8 be deleted from the Indian Basin and placed in the Cemetery Pool where spacing is 320 acres, is that correct?
 - A That is correct.
- And you would drill a well at -- as shown on your Exhibit Number Three, in the north half of Section 8 and you would dedicate the north half, I presume.
 - A That is correct.
- Q Which would leave the south half in the Cemetery under your proposal but not dedicated to any well.
 - A That is also correct.
- Q Unless it's dedicated to the Corinne Grace well.
- A. Well, that's -- we haven't made a final decision on what to do about the Corinne Grace well. It's still under study as to whether to plug it, or we assume it will be plugged.
- Do you have any -- have you made any study
 as to whether that well could be of any use to you, to
 Durham, or not?
- A. We have reviewed the well and at the present time with the proposed location we do not feel that it would be of any use to us right now.
 - Q The Commission at the present time has ad-

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vertised the case for December 7th for Corinne Grace and all interested parties to show cause why that well should not be ordered plugged and abandoned.

Do you feel that Durham, Inc., would show cause why it shouldn't be plugged and abandoned?

- We feel it should be plugged and abandoned.
- You feel it should be.
- Yes, sir.

MR. NUTTER: Are there any further questions of Mr. Michaelson? He may be excused.

LES SKINNER

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

DIRECT EXAMINATION

BY MR. COFFIELD:

Please state your name, address, occupation, and employer.

My name is Les Skinner. My address is 126 Barbara Lane in Midland. I am an engineer and I'm a selfemployed consulting engineer in Midland. I've been retained by Durham for the purpose of making a study of the subject area.

Are you familiar with the application of

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Durham, Incorporated in this case?

A. Yes, sir.

Q Mr. Skinner, have you previously testified before the Oil Conservation Division as a petroleum engineer?

A Yes, sir.

Q And were those qualifications accepted and are they a matter of record?

A. Yes, sir, they are.

MR. COFFIELD: Is the witness considered qualified, Mr. Examiner?

MR. NUTTER: Yes, he is.

Q (Mr. Coffield continuing.) Mr. Skinner,
please refer to what we've marked as Exhibit Three, explain
to the Examiner the engineering details pertinent to the
Durham, Incorporated, application as shown on this exhibit.

A All right, sir. Exhibit Number Three contains bottom hole pressure information that I determined from drill stem tests and initial completion reports on the wells. Each of the pressure points shown on this plot were adjusted to a minus 5700 foot datum.

The pressures in the Cemetery-Morrow reservoir are generally higher, as can be seen from the wells going from west to east. The Depco Shell Federal No. 1 in Section 6, which granted is across a fault, but it has a reservoir pressure of 3800 pounds, 3802.

The David Faskin well in Section 5 has a reservoir pressure of 3807. The Faskin well in Section 4 has a reservoir pressure of 3782, and the Mobil well in Section 10, the dry hole, has a reservoir pressure of 3840 pounds. Those average about 3803.

MR. NUTTER: These were initial pressures when the well's were completed, is that it?

A. Yes, sir, that is correct.

You will note that I have deleted, in my illustration, I deleted the well that was drilled in 1976 in Section 6, which was the Shell Federal 6 Well, because that information -- apparently there has been some drainage. I'll come back and address that point in just a moment.

The wells in the Indian Basin-Morrow reservoir are generally a little lower, between 3700 pounds, roughly, in the Ralph Lowe well in Section 21 to the south, which was the discovery well in this field, to around 3732 in the Faskin well in Section 17; 3787 in the Faskin well in Section 16.

So, generally the pressures in the two reservoirs are slightly different, indicating the presence of some type of separation between them.

The two wells on the east side of the field, one being the Mobil No. 1 Federal B Unit Well in Section 10, had a reservoir pressure of 3800 pounds in 1966.

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
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1911 PRINTED BRANCH (1913) 471-4461

Now, the Faskin well in Section 10 had a reservoir pressure of only 3360 pounds in 1975. This indicates the possibility of some kind of separation between the two wells. We show them here as being in two separate reservoirs.

On the west side of the field in Section 6 the Depco well, the southernmost well in Section 6, had a reservoir pressure of 3802 pounds in November of 1977, compared with the reservoir pressure of 3252 in the Shell Federal 6 Well in December of 1976. In other words, a higher pressure at a later point in time, indicating separation between those two wells.

These two separate comparisons confirm the geological interpretation of Mr. Michaelson, which he's presented, and that substantiates our Exhibit Number Three.

I would point out one further point, which is the Shell Gas Com Well in Section 5 was an early well in the field. It had a reservoir pressure of 3807. Now, a very recent well in the field, Section 6, the Shell Federal 6 No. 1, had a pressure of 3252 in December of 1976. That's a pressure draw-down of approximately 550 pounds. It is very likely that if the well in Section 6, the Shell Federal 6 Well, had not been drilled, the reserves in that portion of the reservoir would not have been recovered by the Faskin Well. I point this out because the difference between the

nearest well to our proposed location, the Faskin well, if it couldn't drain this large area, then I doubt that the reserves in the north half of Section 8 would ever be recovered, thereby constituting waste.

Q Okay, let's go to what has been marked as Exhibit Seven and please explain to the Examiner what that represents.

A. Mr. Examiner, Exhibit Number Seven contains information regarding the anticipated recovery from Morrow wells in this area of New Mexico.

The cumulative recoveries came from plots of P/Z versus cumulative production and are extrapolations of those.

Morrow area generally have significantly higher recoveries in some of the wells to the south. I point in illustration to the David Faskin Well in Section 4, which should recover around 14 Bcf; the Faskin Well in Section 5 should recover around 12 Bcf; and I compare these with some of the wells to the south in Section 9, the Faskin Well will recover about 2 Bcf; in Section 16 the Faskin Well will recover around 2 Bcf; and in Section 17 the Faskin Well should recover around 3.2 Bcf.

Now there are multiple perforations and that's the meaning of the words "main, middle, or lower."

They constitute a section within the Morrow that has been perforated.

So these data may not be reflective specifically of the main pay which is the target for our proposed well in Section 8. But it does again support the fact that the wells within the Cemetery Field behave differently than the wells to the south and leads us to believe that there is — are two separate reservoirs here.

- Q. Will you please refer to what has been marked as Exhibit Eight and explain this exhibit and what it represents?
- A. In this exhibit I used log properties, log defined values of porosity, water saturation, and thickness of the pay, then used the actual anticipated recovery on the David Faskin Shell Com No. 1. This is the well in Section 5, and calculated the drainage area using a 12 Bcf ultimate recovery and the perforated interval of 23 foot section with a 15 percent porosity, water saturation of 20 percent, I calculated a drainage area of around 368 acres.

MR. NUTTER: And you arrived at your 12-billion cubic feet total ultimate recovery from a production decline curve.

- A P/Z versus cumulative, yes.
- Q And put that in here and worked backwards to arrive at 368 acres.

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Q Okay.

A This again shows that the Faskin well does not drain a tremendously large area, and I believe that there are reserves remaining, undrained reserves in Section 8, in the north half of Section 8.

Now we may encounter a lower reservoir pressure than the Faskin wells in Sections 4 and 5 did when they were originally drilled but we've taken this into account and still believe that a well is justified in the north half of Section 8.

Q In other words, you don't believe that the wells presently drilled in the southeast quarter of Section 8 are going to drain all the gas out of that section.

- A. Not a chance.
- Q. Okay, other comments on these exhbits?
- A. No, sir.
- Q Were these exhibits, Seven and Eight, prepared by you or under your supervision?
 - A Yes, sir, they were.
- A If the application is granted, do you believe that the order that would be entered along these lines would be in the interest of prevention of waste, the protection of correlative rights, and the promotion of conservation?

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A. Yes, sir, I do.

MR. COFFIELD: I move the admission of Exhibits Seven and Eight, Mr. Examiner.

MR. NUTTER: Applicant's Exhibits Seven and Eight will be admitted in evidence.

MR. COFFIELD: I have no more questions of this witness on direct.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Skinner, do you see any use to Durham,

Inc., for the well that's presently located in the southeast

quarter of Section 8?

A No, sir, I see --

Q In the development program that he's proposing?

A I'm sorry?

Q. Under the development program that he's proposing. Now, he's proposing to drill a well in the north half of Section 3, and he also has a lease on the southeast quarter. Will this well in the southeast quarter help them to develop the lands that he owns now?

A. The Corinne Grace Indian Hills No. 1 Well holds no potential for commercial production, in my opinion, sir. Now, when we originally picked the lease on the south-

east quarter of Section 8, it was in anticipation of a 640-acre unit. Since that time we've had a chance to study the data and we are convinced ourselves that there is a separation in Section 8, and therefore the Corinne Grace well is of really very little value to us right now.

MR. NUTTER: Are there any further questions of Mr. Skinner? He may be excused.

Do you have anything further, Mr. Coffield?

MR. COFFIELD: The only thing further I have
to offer to the Examiner is to ask if your file reflects
copies of letters which we have addressed to the Commission,
or the Division, from Mr. Sumner Buell on behalf of David
Faskin as the operator in adjacent acreage; and also from
Mr. Robert Pickens with Marathon Oil Company, both of which
support the application of Durham, Incorporated?

MR. NUTTER: We were getting to that. We do -- did you have anything further?

MR. COFFIELD: No, sir.

MR. NUTTER: Does anyone have anything further in Case Number 6389?

MS. TESCHENDORF: We have received letters from -- on behalf of David Faskin and Marathon Oil Company. Both support Durham's application in this case and both request that all of Section 8 be included in the Cemetery Morrow.

MR. NUTTER: Thank you.

Does anyone have anything furtherin Case

Number 6389?

We'll take the case under advisement. (Hearing concluded.)

REPORTER'S CERTIFICATE

I, SALLY WALTON BOYD, a Court Reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability, knowledge, and skill, from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

I do hereby certific that the foregoing is Oil Conservation Division



ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

JERRY APODACA SOVERMOR

January 2, 1979

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Mr. Conrad Coffield Re: Hinkle, Cox, Eaton, Coffield & Hensley Attorneys at Law	CASE NO. 6389 ORDER NO. 3-3885		
P. O. Box 3580 Midland, Texas 79702	Applicant:		
Dear Sir:	Durham, Inc.		
Enclosed herewith are two or Division order recently entry truly, Joe D. RAMEY Director	copies of the above-referenced cered in the subject case.		
JDR/fd			
Copy of order also sent to:			
Hobbs OCC x Artesia OCC x Aztec OCC			
Other	5		

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. 6389 Order No. R-5885

NOMENCLATURE

APPLICATION OF DURHAM, INC., FOR POOL CONTRACTION AND EXTENSION, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on November 21, 1978, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 29th day of December, 1978, 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, Durham, Inc., is the owner of certain oil and gas interests in Section 8, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico.
- (3) That said Section 8 is within the currently defined horizontal limits of the Indian Basin-Morrow Gas Pool, which among other lands, includes all of Sections 8, 9, 16, and 17 of Township 21 South, Range 24 East, NMPM.
- (4) That the Cemetery-Morrow Gas Pool, as currently defined, includes all of Sections 4 and 5 and portions of Section 6 of Township 21 South, Range 24 East, NMPM.
- (5) That the applicant seeks the contraction of the Indian Basin-Morrow Gas Pool by the deletion therefrom of all of Section 8, Township 21 South, Range 24 East, NMPM, and the concurrent extension of the Cemetery-Morrow Gas Pool to include therein all of said Section 8.

-2-Case No. 6389 Order No. R-5885

- (6) That the geological evidence presented at the hearing, together with certain reservoir data including pressures and gravity and porosity information, indicate that the reservoir underlying Section 8 of Township 21 South, Range 24 East, NMPM, is indeed a part of the Cemetery-Morrow Gas Reservoir and not the Indian Basin-Morrow Gas Reservoir.
- (7) That in order to protect correlative rights and prevent waste, the application should be approved and Section 8, Township 21 South, Range 24 East, NMPM, should be removed from the Indian Basin-Morrow Gas Pool and placed in the Cemetery-Morrow Gas Pool.

IT IS THEREFORE ORDERED:

(1) That the Indian Basin-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby contracted by the deletion of the following described lands in Eddy County, New Mexico:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM Section 8: All

- (2) That the Cemetery-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended by the inclusion therein of the above-described lands.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

JOE D. RAMEY

Director

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- Application of Harvey E. Yates Company, Inc., for a dual completion, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the dual completion of its Travis Deep Well

 No. 3 located in Unit B of Section 13, Township 18 South, Range 28 East, to produce oil from the

 Travis-Upper Pennsylvanian Pool and gas from the Morrow formation, Eddy County, New Mexico, through

 parallel strings of tubing.
- CASE 6381: Application of Yates Petroleum Corporation for downhole commingling, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of East Cottonwood Creek-Wolfcamp and Atoka production within the wellbore of its Lizzie Howard "HK" Well No. 1 located in Unit K of Section 13, Township 16 South, Range 25 East, Eddy County, New Mexico.
- CASE 6382: Application of Yates Petroleum Corporation for downhole commingling, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Permo-Penn and
 Little Box Canyon-Atoka production within the wellbore of its Federal "HQ" Well No. 1 located in
 Unit K of Section 5, Township 21 South, Range 22 East, Eddy County, New Mexico.
- Application of Yates Petroleum Corporation for downhole commingling, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Eagle Creek
 Permo-Penn and the West Atoka-Morrow production within the wellbore of its Powell "DG" Com. Well No.
 1 located in Unit O of Section 35, Township 17 South, Range 25 East, Eddy County, New Mexico.
- Application of Yates Petroleum Corporation for downhole commingling, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Permo-Penn and Atoka production within the wellbore of its Federal "AB" Com. Well No. 5 located in Unit L of Section 21, Township 18 South, Range 25 East, Eddy County, New Mexico.
- Application of Yates Petroleum Corporation for downhole commingling, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Box Canyon Permo
 Penn and Box Canyon-Strawn production within the wellbore of its Huber I-A Federal Well No. 2 located in Unit P of Section 15, Township 21 South, Range 21 East, Eddy County, New Mexico.
- Application of Atlantic Richfield Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Ellenburger, Devonian, and McKee formations underlying the N/2 of Section 21, Township 22 South, Range 36 East, Lea County, New Mexico, to be dedicated to its Langley Greer Com Well No. 1 located 1650 feet from the North line and 1980 feet from the West line of said Section 21. 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 R B Petroleum Company for pool reclassification, San Juan County, New Mexico.

 Applicant, in the above-styled cause, seeks the reclassification of the North Tocito Dome-Pennsylvanian Pool as an associated pool and the promulgation of special pool rules therefor. In the alternative, applicant seeks the abolishment of the North Tocito Dome-Pennsylvanian Pool and the inclusion of the abolished lands in the Tocito Dome Pennsylvanian "D" Associated Pool.
- CASE 6388: Application of Amoco Production Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the E/2 of Section 20. Township 23 South, Range 29 East, Eddy County, New Mexico, 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 Durham. Inc., for pool contraction and extension, Eddy County, New Mexico. Applicant. in the above-styled cause, seeks the contraction of the Indian Basin-Morrow Gas Pool by the deletion therefrom of the N/2 of Section 8. Township 21 South, Range 24 Fast, Vidy County, New Mexico, or in the alternative, all of said Section 8, and the extension of the Cemetery-Morrow Gas Pool to include the aforesaid N/2 or all of said Section 8.
 - CASE 6390: Application of C & E Operators for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down thru the Pictured Cliffs formation underlying the SW/4 of Section 10, Township 30 North, Range 11 West, San Juan County, New Mexico, 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, applicant, in the above-styled cause, seeks an order pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down thru the Pictured Cliffs formation underlying the SW/4 of Section 10, Township 30 North, Range 11 West, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down thru the Pictured Cliffs formation underlying the SW/4 of Section 10, Township 30 North, Range 11 West, San Juan County, New Mexico, to be considered will be the cost of considered will be the cost of drilling and county, New Mexico, above 10, Township 30 North, Range 11 West, San Juan County, New Mexico, above 10, Township 30 North, Range 11 West, San Juan County, New Mexico, above 10, Township 30 North, Range 11 West, San Juan County, New Mexico, above 10, Township 30 North, Range 11 West, San Juan County, New Mexico, above 10, Township 30 North, Range 11 West, San Juan County, New Mexico, above 10, Township 30 North, Range 11 West, San Juan Coun

Docket No. 37-78

Dockets Nos. 39-78 and 40-78 are tentatively set for hearing on December 7 and 20, 1978. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - TUESDAY - NOVEMBER 14, 1978

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

The following cases are continued from the November 7, 1978, Commission Hearing.

CASE 6146: (DE NOVO) (Continued and Readvertised)

Application of Jerome P. McHugh for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Tapacito-Gallup and Basin-Dakota production within the wellbore of his Jicarilla Well No. 5 located in Unit D of Section 29, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.

Upon application of Jerome P. McHugh this case will be heard De Novo pursuant to the provisions of Rule 1220.

CASE 6266: (DE NOVO)

Application of Harvey E. Yates Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of an Upper Pennsylvanian test well to be located 660 feet from the North and East lines or, in the alternative, 990 feet from the North and East lines of Section 23, Township 22 South, Range 23 East, Indian Basin-Upper Pennsylvanian Gas Pool, Eddy County, New Mexico, all of said Section 23 to be dedicated to the well.

Upon application of Harvey E. Yates Company this case will be heard De Novo pursuant to the provisions of Rule 1220.

- CASE 6377:
 Application of Durham, Inc., for compulsory pooling, Eddy County, New Mexico. Applicant, in the abovestyled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Section
 8, Township 21 South, Range 24 East, Indian Basin-Morrow Gas Pool, Eddy County, New Mexico, to be dedicated to a well to be drilled 1650 feet from the North and East lines of said Section 8. 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 6378: In the matter of the hearing called by the Oil Conservation Division on the motion of Shell Oil Company to permit Corinne Grace and all other interested parties to appear and show cause why Division Order No. R-3713, which pooled all of Section 8, Township 21 South, Range 24 East, Eddy County, New Mexico, should not be declared null and void, if said pooling order has not already automatically expired due to non-production.
- CASE 6379: Application of Shell Oil Company for pool contraction and pool extension, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks the contraction of the Indian Basin-Morrow Gas Pool by the deletion therefrom of the N/2 of Section 8, Township 21 South, Range 24 East, Eddy County, New Mexico, or in the alternative, all of said Section 8, and the extension of the Cemetery-Morrow Gas Pool to include the aforesaid N/2 or all of said Section 8.

Docket No. 38-78

DOCKET: EXAMINER HEARING - TUESDAY - NOVEMBER 21, 1978

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

- ALLOWABLE: (1) Consideration of the allowable production of gas in December, 1978, from fifteen prorated pools in Lea, Eddy, and Chaves Counties, New Mexico.
 - (2) Consideration of the allowable production of gas for December, 1978, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.

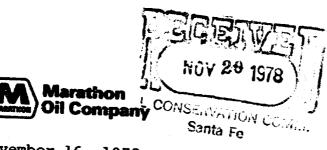
rage 3 of 3 Examiner Hearing - Tuesday - November 21, 1978

Docket No. 38-78

Application of Acoma Oil Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blinebry, Wantz-Abo, and Drinkard production within the wellbore of its Sarkeys Well No. 1 located in Unit A of Section 26, CASE 6364:

(Continued from October 25, 1978, Examiner Hearing)

Application of Adobe Oii Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Ellenburger formation underlying the NW/4 SE/4 of Section 23, Township 20 South, Range 38 East, Lea County, New Mexico, to be dedicated to a proposed oil well to be drilled at a standard location thereon, Applicant seeks the pooling of the SE/4 of said Section 23 in the event said drilling results in a gas well. Also to be considered will be the cost of drilling and completing said well and the considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.



Robert J Pickens Attorney Houston Division Production US & Canada

PO Box 3128 Houston Texas 77001 Telephone 713/629 6600

Jell no. 6389 Case No. 6389 Kru

November 16, 1978

Mr. Dan Nutter, Chief Engineer State of New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Application of Durham, Inc. for Pool Contraction and Pool Extension, Eddy County, New Mexico

Dear Mr. Nutter:

It is our understanding that the above mentioned application has been set on the docket for the Examiner's Hearing to be held November 21, 1978. Marathon Oil Company is interested in said hearing in that it holds an oil and gas lease on the southwest quarter of Section 8, Township 21 South, Range 24 East, N.M.P.M., Eddy County, New Mexico.

Marathon concurs that the entirety of Section 8 is geologically more closely associated with the Cemetery-Morrow Gas Pool rather than with the Indian Basin-Morrow Gas Pool. Marathon has no objection to the granting of applicant's petition for pool contraction and pool extension, provided that all of Section 8, T-21-S, R-24-E, is included within the Cemetery-Morrow Gas Pool.

Yours very truly,

ROBERT J. PICKENS

Attorney

RJP:gt

HBC Falsen False 3414 1489 3554950 35 10 180 29120 53 (1800 0 25494 State Amaco Marathor HBU CSERR Fedurit TOGITC DVAS 22 SE Marathen 484 022 534 ARCO MBF 13 MARATHON D Fosken 3 - 1 - 78 4589 INDIAN 20 HILLS 9.8818 9.90CB 25 DURHAM Midland, Texas INDIAN BASIN CEMETARY FIELD AREA POR COUNTY, NEW MEXICO LAND PLAT CASE NO. 6387 Scale: I" = 4,000' Nov., 1978

DRAFTING By C Burnsayes

GROUP NO. 1 WELLS INDIAN BASIN AREA

GRACE
INDIAN HILL No. 1
0 = 9%
G/R API = 45

Fasken

Fed. 10-1 $\emptyset = 10\%$ G/R API = 30

Arg. Ø = 9% Arg. G/R API = 32

GROUP NO. 2 WELLS CEMETARY FIELD AREA

DEPCO No. 1 SHELL FED. Ø = 12% G/R API = 25

FASKEN
ROSS FED. No. 1
Ø = 11%
G/R API = 25

Fasken

Shell Gas Con. No.

Ø = 15%

G/R API = 25

Mobil Fed. "V" Unit No. 1 Ø = 18% G/R API = 20 SHELL <u>FED. 6 No. 1</u> Ø = 18% G/R API = 35

COTTON FED. 7 No. 1 Ø = 16% G/R API = 26

Arg. $\emptyset = 16\%$ Arg. G/R API = 26

BEFORE ELABORAR REMOTTER
CALICULATION DATES
2445.71.0.6
CASE NO. 6387

RESERVE ESTIMATE - GAS RESERVOIR

Operator David	Operator David Fasken Well Name & No. Shell Gas Com. #1						F.L
Location 1980' FS & WL's, Sec 5, T-21-S, R-24-E							
Field Cemeta	ry (Morrow	,)	Count	y Eddy	·	State N.	M
	Reservoir Data					•	
Initial BHP Abandonment BHP BH Temperature Gas Gravity Log - Ø = F =		Press B	ase= 60 =	778 213 621 psia	psia psia or Tc	358 ⁰ R	
Log - Rt= @RW= S _W = Thickness	20 28						
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<u>-</u>			$\Delta B_g =$		222.6		_scf/ft ³
ULTIMATE RECOVE						•	
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BEFORE EXAMIN	ER NUTTE	1	TOTAL RE	SERVES	=		MCF
OIL CONSERVATION DIVISION EXHIBIT NO. 8 Drainage Area = 368 AC							
EXHIBIT 1 CASE NO. 6.389	VO. 8 1		ALEA- X	,			

LAW OFFICES

EATON, COFFIELD & HENSLEY

1009 FIRST NATIONAL BANK TOWER POST OFFICE BOX 3580

ARENCE E. HINKLE

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DOUGLAS L.LUNSFORD PAUL M. BOHANNO J. DOUGLAS FOSTER K.DOUGLAS PER C. RAY ALLEN JACOSET MET W. ALL PM T. CALDER EZZELL JIR.

LEWIS C. COM,UR. PAUL W. EATON, JR. CONFAD E.COFFIELD

ETUART D. SHAHOR

JAMES H. SOZABTH

November 7, 1978

ONLY ATTYS, COFFIELD, MARTIN, BOZARTH, BOHANMON, FOBTER, ALLEN & ALLEN

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

Dear Dan:

Transmitted herewith you will find triplicate executed copies of an Application for Durham, Inc. for pool contraction and pool extension in Eddy County, New Mexico.

It is my understanding that the docket setting for November 21 is still available for this matter, and accordingly, we request that it be heard on that date.

I trust that the enclosed copies of the Application are all that is needed in order for this to be set for the November 21 hearing. However, if anything is needed in addition, please let me know.

Very truly yours,

HINKLE, COX, EATON, COFFIELD & HENSLEY

Conrad E. Coffield

CEC:rf Enclosures

xc: Mr. Peter Michelson

Durham, Inc.

Post Office Box 273 Midland, Texas 79702

xc: Mr. Fred Durham

Durham, Inc.

Post Office Box 273

Midland, Texas 79702

xc: Mr. A. W. Hanley

Marathon Oil Company Post Office Box 552

Midland, Texas 79702

BEFORE THE OIL CONSERVATION DIVISION STATE OF NEW MEXICO

APPLICATION OF DURHAM, INC. FOR POOL CONTRACTION AND POOL EXTENSION, EDDY COUNTY, NEW MEXICO)))	case 638
	•	

Durham, Inc., by its undersigned attorneys, hereby
makes application for an O-der to contract the Indian BasinMorrow Gas Pool by the deletion therefrom of the N½ of Section
8, Township 21 South, Range 24 East, N.M.P.M., Eddy County,
New Mexico, or the deletion of All of said Section 8 and
to extend the Cemetery-Morrow Gas Pool to include the aforesaid N½ or All of said Section 8, Township 21 South, Range 24
East, N.M.P.M., Eddy County, New Mexico, and in support
thereof would show:

- 1. That pursuant to Order No. R-3713, all mineral interests in the Morrow formation underlying Section 8, Township 21 South, Range 24 East, N.M.P.M., Indian Hills, Eddy County, New Mexico, were pooled to form a 640-acre proration unit dedicated to a well drilled 1650 feet from the South line and 1750 feet from the East line of said Section 8.
- 2. That Corinne Grace was dedicated the operator of subject well and unit.
- 3. That said lease expired by its own terms on August 31, 1976 for failure to produce.
- 4. That the geological structure pertaining to the N½ of said Section 8, or in the alternative, all of Section 8 is more clearly associated with the Cemetery-Morrow Gas Pool lying directly to the North of said Section 8 than it is with the Indian Basin Gas Pool in which it is presently located.
- 5. That the pool rules of the Cemetery-Morrow Gas Pool formation provide for 320-acre spacing proration units as compared to the 640-acre spacing proration units provided for in the rules governing the Indian Basin-Morrow Gas Pool.

- 6. That in the event this Application is granted, the Applicant intends to dedicate the N¹2 of said Section 8 to a proration unit in the Cemetery-Morrow Gas Pool and to develop said half section in accordance with the rules and regulations of the Oil Conservation Division.
- 7. That the granting of this Application is in the interest of the prevention of waste and the protection of correlative rights.

WHEREFORE, Applicant respectfully requests the Division to grant an extension of the Cemetery-Morrow Gas Pool to include the N½ of Section 8, or in the alternative, All of Section 8, Township 21 South, Range 24 East, N.M.P.M., Eddy County, New Mexico, and for an Order contracting the Indian Basin-Morrow Gas Pool to delete the N½ of Section 8, or in the alternative, All of Section 8, Township 21 South, Range 24 East, N.M.P.M., Eddy County, New Mexico.

HINKLE, COX, EATON, COFFIELD & HENSLEY

Bv:

Conrad E. Coffield

Post Office Box 3580

Midland, Texas 79702

Attorneys for Durham, Inc.

ROUGH

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.

Order No. A-5885

POOL CONTRACTION AND EXTENSION, NOMENCLATURE EARY COUNTY, NEW MEXICO

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on November 21 19 78, at Santa Fe, New Mexico, before Examiner DSN NOW, on this _____ day of December , 19 78 , 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, Durham, Luc., is the section 8, Tannship 21 Santh, Range 24 East, NAMY, Rolly County, New Mexico. enruty defined (3) That said Section 8 is within the horizontal Sunts of the Andian Basin- Morrow Gas Hool, which among other lands, include see of Sections 8, 9, 16, and 17 of Town-whip 21 South, Range 24 East, NMPM. (4) That the Cometery-Marrow Gas Pool, as currently defined, includes all of Sections 4 and 5 and partions of Section 6 of Township 21 South, Kange 24 East, NMPM. (5) That the applicant seeks the contrac-By the deletion therefrom of all of Section 8, Township 21 Santh, Range 24 East, NMPM, and the concurrent extension of the Cometerymorrow gas Pool to include therein all A said Section 8. (6) That the gealogical widence the sented at the hearing, together with certain kenervier daka including pressures gravity and sprosely information, indicate that Section 8 of Township 21 South, Range 24 East, NMPM, is indeed a part of The Cometery- Marran garberervair Gas Recervoir and (4) That in order to protect forrelative rights and present waste, The application shared be approved and Section 8, Township 21 South, Kanza 24 East, NINIPNI,

should be removed from the dudion basinmorrow you Pool and placed in the Cemstery. morrow gas Paul.

IT IS THEREFORE ORDERED:

(1) That the Sudian bean the Marrow gas Pool in Eddy land, ken mexico, as presently herebefore classified, defined, and described is hereby contracted by the debtion of the following the described lands in Eddy County, here Mexico:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMAM Section 8: All

(2) that the Cemetery Morrow Gas Poul in Eddy Count, her thereise as heretofore classified Defined, and described in hereby extended by the inclusion therein of the successful lands.

(3) Jurisdickin.

ET ESQ2

Garmen 136

MEXICO
COURT POOLING SAN JUAN COUNTY, NEW
CASE 6390: C & E OPERATORS FOR COMPUL-

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