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25 A Mark Nearburg Nearburg Producing Com-	24	and by whom you are employed and in what capacity?
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pany, Land Manager.

And, Mr. Nearburg, have you previously testified before the Division, one of its examiners, and had your credentials accepted of record?

> Α Yes.

MR. HALL: Are the witness' qualifications acceptable today?

> MR. CATANACH: They are.

Nearburg, what is it that you seek Mr. Q by your application here today?

We seek a nonstandard gas proration unit and unorthodox gas well location in Eddy County, New Mexico for a Morrow test well located 990 feet from the north and east lines of Section 12, Township 19 South, Range 25 East.

We propose to dedicate either the north half 320-acre unit or a northeast quarter 160-acre unit for the drilling of this well.

Have you prepared certain All right. exhibits in connection with your testimony today?

> Α Yes, I have.

Let's look at Exhibit Three , if you Q would explain that to the Examiner.

Exhibit Three is a land map showing pro-Α ducing proration units in the dotted lines; those are Morrow producing units; the proposed well with a red dot; and

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a 160-acre proration unit outlined in yellow. The map also shows in green the wells that are producing on the Anadarko Damson, and Nearburg offset units, which are all Morrow wells.

The dry hole in the southeast quarter southwest quarter of Section 1, 19 South, 25 East, is a Morrow dry hole that never produced.

The well in blue in the southeast quarter northwest quarter of Section 12 was drilled to the Morrow; it was never completed in the Morrow; it was plugged back to the Atoka, where it produced until abandonment and that well is currently plugged and abandoned.

The well in orange is a well that was drilled to the Morrow. It's located in the northeast quarter of Section 11, 19 South, 25 East. It was drilled to the Morrow, was never completed in the Morrow. They plugged back and completed in the Strawn formation and that well is currently producing from the Strawn formation.

Q All right. Would you please elaborate? What is the purpose of seeking the alternative 160-acre nonstandard unit?

A Due to the numerous holes that have penetrated the Morrow formation in this area, we had significantly more data than we usually do for a Morrow location

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and in preparing for the hearing it became clear that the Morrow potential in the northwest quarter has been condemned; that if the proration unit is a 160-acre unit, the well is at a standard location, and as the geology will show, we wanted to give the Commission the option to select a proration unit they feel is most applicable.

Q All right. And again what are the acreage dedication and the well location requirements for this particular pool?

A This is the Boyd Morrow Pool. It specifies 320-acre proration units with wells location 1980 feet from the end boundary and 660 feet from the side boundary.

For a 160-acre spacing the statewide rules call for wells located no closer than 660 feet to the outer boundary nor closer than 330 feet to the inner boundary of a quarter quarter section, and 1320 feet between wells.

The closest well to our proposed well in this hearing is the Glass 7-E No. 1, which is located in the southwest quarter northwest quarter of Section 7, and it is approximately 1800 feet from the proposed well.

Q But for the 160-acre unit your location would be standard, is that correct?

A That's correct.

Q Does Nearburg Producing have any other

development in the area?

A Not at this time, other than the Glass

7-E.

Q All right.

A And I would also like to point out that the east half northeast quarter of Section 12 is on common mineral working interest ownership with the north half of Section 7.

Q All right. Getting back to the 320 unit, if the application for that well is granted, do you believe that a production penalty is appropriate?

A In this case we do not because of the production from -- legally correlative rights are being protected by the production on Anadarko, Damson and the Nearburg offsets.

Q All right.

Q What does your economic data show is necessary to have a successful well in this area?

A We believe that a cumulative production of at least 1 BCF will pay out the well and provide some return.

Q All right. Let's -- do you have anything further to add?

A I would point out that on Exhibit Three, in the northeast quarter Nearburg has 100 percent working

interest. Do you have reference to Exhibit Four or do you want to reference that?

Yes, please go ahead and explain it.

A On the 320-acre unit Nearburg would have 84 percent working interest and Yates would have 16 percent working interest. The Yates interest is by virtue of a well located in another section other than Section 12, which held by production certain leases in the west half northwest quarter of Section 12.

Q All right. Let's look at Exhibit Five, if you would, please.

Is Exhibit Five an affidavit showing that you've directed your counsel to notify all offset interest owners and ownership interest affected by the application?

A Yes, it is, and we took care in our notice that if the Commission decides 160-acre spacing is appropriate, we did notify the owners in the northwest quarter of Section 12 of the option given to the Commission to approve the 160-acre spacing. So not only did we notice the people offsetting in the direction of our nonstandard location, we also notified people within Section 12 in the northwest quarter.

Q All right. Mr. Nearburg, in your opinion would the granting of your applications be in the in-

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Q Okay, down south in 12 and 7, what's the ownership status of that?

A The south half of 12 is owned by Nearburg and Yates. It's Fairchild Farms tracts. There are several hundred leases in there. The ownership is about 60 percent Nearburg and 40 percent Yates. That's a very rough guess. I'd prefer to send you a letter stating the ownership, if you want.

Q All right.

A (Not understood). The south half of Section 7, the west half southwest quarter is owned by Yates Petroleum. It's held by production from a well not in Section -- not anywhere on this map.

The southwest quarter southeast quarter is leased to Yates Petroleum Company and all of the lands in the south half of Section 7 are leased to Nearburg.

Q Okay. You made a statement to the effect that the northwest quarter of Section 4 was condemned. Is that condemned from geology?

A Yes. I think that will be shown in our geologic presentation.

MR. CATANACH: That's all I have for the witness. He may be excused.

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please explain what that's intended to reflect?

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A Okay. Exhibit One, on the right side of Exhibit One is a net sand isopach or thickness map of the Morrow interval which contains the sandstone reservoirs that we're looking for.

On the lefthand side is a diagram -- is a type log taken from the newly completed Nearburg No. 7-E Glass, adjacent to the proposed location, showing how I arrived at the criteria that used in making the isopach map on the right side.

Looking at the type log, I utilized a gamma ray API unit cutoff of 50 units as clean sand. What I qualify clean sand is anything under 50 units API, and these are indicated in yellow on the gamma ray track.

ON the CNL/FDC density track I've indicated a density cutoff, sandstone cutoff, of 80 percent porosity as productive, being a productive Morrow porosity cutoff in this particular area. (Not clearly understood) sands that -- that have greater than or equal to 8 percent density porosity indicated by red on the density track.

The isopach map on the righthand side is an isopach of total net sandstone in the interval between the top of the Morrow, the Middle Morrow indicated on the type log, and the top of the Barnet Shale. It's a total of all the yellow sands on the gamma ray track. The dotted

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patterns on the isopach map correspond to those areas were there's greater than 10 percent of 8 percent porosity -- 10 feet of 8 percent porosity in that entire interval. That's greater than 10 percent -- 10 feet of net 8 percent porosity. porosity.

These criteria were applied after looking at the entire area, several township area, deciding on what constituted a productive well, something that would make at least a BCF of gas from the Morrow, and the locations that we then proposed are based upon where we think the best porosity development is going to be in a particular area. So, for instance, 40 feet of -- having 40 feet of sand doesn't guarantee you're going to have reservoir conditions if you don't have greater than or equal to 10 percent -- 10 feet of porosity.

So anywhere you see a stippled pattern in an area -- is a fairway, a potentially productive fairway, in terms of what we know the Morrow -- how the Morrow is productive in this area.

pach map indicate primary sediment flow directions throughout the middle to lower Morrow interval that I've isopached. So you can see that the Morrow here is comprised of a series of different sands which have different flow directions, different flow directions at the point of whatever particular proposed location we come up with.

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So, for example, at the proposed location in Section 12, as indicated by the red dot and the red arrow, we see several sands, or I anticipate there being several sands there, one of which shows a sweep meander, a very sharp meander. Another one, which is coming in from the northwest; and perhaps another one that's almost flowing due southeast. So there are at least three major sand bodies that I might anticipate at that particular location, which cumulatively produce greater than 10 feet of what I hope to be productive porosity.

If we move off to the west towards the well that has the value of 22 feet of net sand, that is the well that was completed in the Atoka. It did not make a Morrow well even though it had 22 feet of sand in it. It condemns virtually the entire west half of Section 12 as we now see it.

If we were to move the proposed location any further to the west we run the risk of running of the productive fairway and closer to that dry Morrow well.

Q All right, let's refer to Exhibit Two. What is this exhibit intended to show?

A I might add in terms of Exhibit Number One, the flow directions that we -- that I'm indicated by the bold arrows were determined by dipmeter interpretation

off of the No. 7-1 Glass that Nearburg completed.

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Okav. the exhibit marked Exhibit Number Two is a structural cross section which was indexed on the It's marked west-east on the isoisopach map.

it goes from west on the left side of the pack map and section to east on the right side of the cross seccross

It's a structure map that goes through

Nearburg No. 1 -- 7-E No. 1 Glass, and it also takes in the

the proposed location, proceeds down dip to the east to the

two wells in Section 1, the closest one to the proposed

location, which is the poorer producer from the Morrow,

it's only cumed 131,250 MCF of gas, and further up dip to

the Amoco No. 1 Alley, which has cumed nearly 2 BCF of gas;

at this point it's probably closer to 2-1/2 BCF of gas from

As you can see on the cross section, we

are going to -- we are anticipating being up dip to production in the No. 1 Glass 7-E, and we're going to be

down dip to production in the No. 1 Anderson and the No. 1

Alley; however, these sandstone bodies are laterally dis-

continuous. You cannot correlate the pay zones in the

Alley or the Anderson wells to what is productive now in

7-E Glass, nor do I anticipate us intersecting the No.

the same productive sands in the proposed locations as are producing out of the two up dip wells.

So what I'm saying here is that I anticipate that we will intersect perhaps one zone in common to 7-E Glass and two, maybe more, zones that are probably not going to be in common to the up dip producers, which are at least a half a mile away from us.

Q Anything further to add with respect to Exhibit Two?

A No, I don't.

Q Mr. Mazzullo, in your opinion will the granting of the applications be in the interest of conservation, the prevention of waste, and protection of correlative rights?

A Yes, it will.

Q Were Exhibits One and Two prepared by you or at your direction?

A Yes, they were.

MR. HALL: We'd move the admission of Exhibits One and Two, and that concludes our direct.

 $$\operatorname{MR}.$$ CATANACH: Exhibits One and Two will be admitted into evidence.

CROSS EXAMINATION

BY MR. CATANACH:

Q Mr. Mazzullo, the well in Section 12 that's been plugged --

A Uh-huh.

Q -- that was tested in the Morrow?

A I believe it was tested. I'd have to check and get -- I believe it was tested tight in the Morrow.

Q Was that well logged?

A Yes.

Q Have you looked at that log?

A Oh, yes, and I've done the same determination in terms of net sand and net porosity on that well as I've done with every other well in this area, and to the best of my recollection, it had less than 3 feet of what I would consider to be productive porosity; that is less than 3 feet of 8 percent porosity.

It doesn't even come any -- it doesn't even come close to the fairway as I've outlined it.

Q And at your proposed location you have approximately how many feet of 8 percent (unclear)?

A I would anticipate -- now, No. 7-E Glass had approximately 28 feet or so of productive porosity. I would say that we would be at least -- I anticipate being at least that, that good, if not a little bit more, because we have -- I anticipate there being a little bit more sand

1 in the proposed location, total sand. 2 Do you have an opinion as to whether the 3 proposed well will drain any portion of the northwest 4 quarter? 5 I would defer that to our engineer, who 6 can testify on that point, if need be. 7 I'd like an opinion, if I could get one. Q 8 MR. CATANACH: That's all I --9 the questions I have for now. 10 11 TIMOTHY R. MacDONALD 12 being called as a witness and being duly sworn upon his 13 oath, testified as follows, to-wit: 14 15 DIRECT EXAMINATION 16 BY MR. HALL: 17 For the record please state your name, Q 18 by whom you're employed and in what capacity. 19 I'm Timothy R. MacDonald. I'm employed Α 20 by Nearburg Producing as an Engineering Manager in Dallas, 21 Texas. 22 And, Mr. MacDonald, have you previously Q 23 testified before the Division or one of its examiners and 24 have your qualifications been accepted? 25 Α Yes.

Are you familiar with the subject appli-

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Q And how many acres does that correspond to?

A That would correspond, we have 126 acres and that being at the high side, drainage.

Q How did you arrive at your 2.5 BCF?

I based that on the Amoco Alley Well up in Section 1, that being what we consider one of the better wells in the area, and to try to show the most, the largest potential drainage area we felt like we could show, we used that, that higher -- that higher reserve number.

The Glass has only been on line for a couple weeks and we don't have enough production data or pressure data to substantiate any kind of reserve analysis there yet.

Q So that's about the approximate area you feel the proposed location will drain?

A No, that's the approximate area that I feel the Glass No. 1 will drain.

Q Right, but from that you can -- what kind of inference can you make from that as to what acreage the proposed well will drain? Do you think it will be about the same?

A I would say that it would be similar based on what I've looked at.

Q So it is your opinion that you won't get

any drainage from the northwest quarter.

A Of Section 12? Probably not; very little. There will probably be some but very little. You know, these drainage calculations, as you know, are basically a simplified drainage radius circle and the reservoir not being completely homogeneous and everything else will influence the exact pattern that will be drained but -- but with the data available this is the best kind of calculations I can do.

Q Does that, does the Glass No. 7 Well, does that have a standard proration unit, do you know?

MR. NEARBURG: 300 north. That whole north half is common ownership.

 $$\operatorname{\textsc{MR}}$.$ CATANACH: That's all the questions I have of this witness.

He may be excused.

MR. HALL: Nothing further in

the case.

MR. CATANACH: I have a couple

for Mr. Nearburg.

MARK NEARBURG,

being recalled as a witness and remaining under oath, testified as follows, to-wit:

RECROSS EXAMINATION

BY MR. CATANACH:

Q Mr. Nearburg, do you know if all of the Morrow wells in this area have standard 320's?

A It's a 320-acre field. Well, the Boyd Morrow is 320 acres, and then as you move over into 19 South, 26 East, where the Glass 7-E is, at some point in there you get into the -- I think it's on over into Section 8 of 19, 26, you get into the undesignated Four Mile Draw Morrow Pool.

And that also has 320-acre spacing.

Q Okay.

A And rather than ask for special pool rules and new pool, you know, all that, with all the other operators in here, and because of the lack of data in other areas of the pool, like we have here, we thought it would be more appropriate to just ask for an exception if you feel it's appropriate, to the pool rules rather than trying to change the entire pool rules, because we do feel that there are some places in these pools where 320-acre spacing is justified.

Q So you feel that some of the wells are draining 320's but some are not?

A Well, I think you can find -- I can't give you a specific example of that and I don't think I'm

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really qualified to say that. We just felt that from the standpoint of administration, and it was just not appropriate to ask that the pool rules, you know, be adjusted, because I think to do that you'd have to take a look at every well in the pool and we just didn't think it was appropriate.

The difference here is all the control you have, you know, to be able to pinpoint like this.

As I say, it's hard to say in the absence of control, you know, where the reservoir is. I think we'd rather leave that to the Commission.

Q And you stated that you didn't think that the well should be given a penalty.

A Right.

Q If you should go with a 160-acre proration unit, won't that -- doesn't that justify a penalty?

A I think that justifies no penalty because it's at a standard location on a 160-acre unit, and furthermore, you are protecting the correlative rights from the Glass and the Anadarko Well and the ownership between half of the proration unit in 12 and under the Glass 7-1 is common.

So especially on a 160-acre unit we do not feel a penalty is appropriate.

We feel the penalty would be more appro-

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    priate on a 320-acre unit. you know, if at all, you know,
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    because basically you've got, if anything, the northeast of
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    12 is probably being drained by the other wells that are in
    existence right now.
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             Q
                       Okay.
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                                  MR.
                                        CATANACH:
                                                         further
                                                     No
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    questions. The witness may be excused.
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                                  Is there anything further in
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    this case?
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                                  MR. HALL: No, sir.
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                                 MR. CATANACH: If not, it will
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    be taken under advisement.
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                        (Hearing concluded.)
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CERTIFICATE

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

Sally W. Boyd COR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 946.

heard by me on 1986.

Oil Conservation Division

Examiner