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1	APPEARANCES	
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1	(8:20 a.m.)
2	EXAMINER BROOKS: At this time, we will
3	call the application of COG Operating, LLC for a
4	nonstandard we'll call Case Number 14911, application
5	of COG Operating, LLC for a nonstandard spacing and
6	proration unit and compulsory pooling, Eddy County, New
7	Mexico.
8	Call for appearances.
9	MR. FELDEWERT: Mr. Examiner, Michael
10	Feldewert from the Santa Fe office of the law office of
11	Holland & Hart, appearing on behalf of the Applicant,
12	COG Operating, LLC.
13	I have two witnesses here today.
14	If I may approach?
15	EXAMINER BROOKS: Thank you.
16	MR. FELDEWERT: Shall we have the two
17	witnesses sworn?
18	EXAMINER BROOKS: Yes, please.
19	Would the witnesses please stand and
20	identify themselves for the record?

## EXAMINER BROOKS: Call your first witness. 24

(Witnesses sworn.)

21

22

23

MR. DIRKS: Stuart Dirks.

MR. CLARK: Greg Clark.

- 1 Mr. Dirks.
- 2 STUART DIRKS,
- 3 after having been previously sworn under oath, was
- 4 questioned and testified as follows:
- 5 DIRECT EXAMINATION
- 6 BY MR. FELDEWERT:
- 7 Q. Would you please state your name and then
- 8 identify by whom you are employed and in what capacity,
- 9 please?
- 10 A. My name is Stuart Dirks. I'm employed with COG
- 11 Operating, LLC in Midland, Texas as a landman.
- 12 Q. Have you previously testified before this
- 13 Division?
- 14 A. Yes, I have.
- 15 Q. And were your credentials as a landman accepted
- 16 and made a matter of public record?
- 17 A. Yes.
- Q. Are you familiar with the application that has
- 19 been filed in this matter?
- 20 A. Yes, I am.
- 21 Q. Are you familiar with the status of the lands
- 22 in the subject area?
- 23 A. Yes, I am.
- Q. And would you please turn to what's been marked
- 25 as COG Exhibit Number 1? And using that, would you

- 1 identify for the Examiners what the company seeks with
- 2 this application?
- A. Highlighted in yellow is Section 1 of 19 South,
- 4 25 Northeast in Eddy County. We seek to form a 160-acre
- 5 nonstandard spacing unit and proration unit covering the
- 6 north half of the north half of Section 1. We also seek
- 7 to pool all mineral interest in the Yeso Formation
- 8 within our proposed unit.
- 9 Q. Mr. Dirks, what well will be initially
- 10 dedicated to this nonstandard unit?
- 11 A. The Clydesdale 1 Fee #1H.
- 12 Q. And what will be the orientation of that well?
- 13 A. From east to west.
- 14 Q. And will you have a standard penetration point
- in Unit A, as well as a standard bottom hole location?
- 16 A. The surface location will penetrate at a
- 17 standard location -- penetrate the formation at a
- 18 standard location. And, yes, the bottom hole is a
- 19 standard location.
- Q. And what pool is involved with this particular
- 21 application?
- 22 A. The Penasco Draw.
- 23 Q. And what is the status of the lands in this
- 24 particular area?
- 25 A. They're all fee lands.

- 1 Q. Then turn to what's been marked as COG Number
- 2 2. Does this identify the lease donors in each tract of
- 3 the north half of the north half of Section 1?
- A. Yes, that's correct.
- 5 Q. Now, first off, how many of the lessees that
- 6 are shown on here remain uncommitted to this proposed
- 7 well?
- 8 A. Only one.
- 9 Q. And which company is that?
- 10 A. That is OXY-Y1 Company.
- 11 Q. And then have you -- you also note on here that
- 12 there was some open acreage; is that correct?
- 13 A. That's correct.
- 14 Q. Have you been able to identify the owners in
- 15 this open acreage?
- 16 A. Yes, I have.
- Q. And were you able to secure -- or was the
- 18 company able to secure leases from some of the minerals
- 19 owners in this open acreage?
- 20 A. We've secured almost 50 leases within our
- 21 proposed unit.
- 22 O. And if I turn to what's been marked as COG
- 23 Exhibit Number 3, is that a sample of the well proposal
- 24 letter that was sent to the interest owners in the
- 25 proposed nonstandard unit?

- 1 A. Yes, it is.
- Q. And it contains an AFE; does it not?
- 3 A. Yes, it does.
- 4 Q. If we then turn to what's been marked as COG
- 5 Exhibit Number 4, is this, Mr. Dirks, a list of the
- 6 mineral owners in the nonstandard unit that you have
- 7 been unable to locate and, therefore, obtain a lease
- 8 from?
- 9 A. That's correct.
- 10 Q. Was notice -- and it also shows, does it not,
- 11 their percentage interest in the well or in the
- 12 nonstandard well in issue?
- 13 A. Yes, it does.
- Q. Was the notice of this hearing provided by
- 15 publication to this subset of interest owners that you
- 16 have been unable to locate?
- 17 A. All except for one.
- 18 Q. Which one is that?
- 19 A. That was the estate of Rufus Rand.
- Q. And what occurred with respect to that
- 21 particular estate that caused notice not to be provided?
- A. His interest did not appear on our takeoffs
- 23 when we first sent out the well proposals. Once we
- 24 received the title opinion, that's when we found his
- 25 interest. We do have a lease from an H.C. Rand, and we

- 1 got these two interests confused, but, in fact, they are
- 2 separate and unrelated interests.
- 3 Q. And does the company intend to provide
- 4 additional notice by publication to the estate of Rufus
- 5 Rand to address this very small interest in this
- 6 nonstandard unit?
- 7 A. Yes, we do.
- 8 Q. Now, with respect to the remaining interest
- 9 owners shown on this list, notice was provided by
- 10 publication?
- 11 A. Yes.
- 12 Q. And if you turn to what's been marked as COG
- 13 Exhibit Number 5, it contains, does it not, two notices
- 14 of publication in the newspaper of general circulation
- of the daily press on September 27, on the second page,
- 16 and October 7th, on the first page, correct?
- 17 A. Yes.
- 18 Q. And the individuals that we just went through
- 19 on the prior list are actually listed by name, or their
- 20 estates, in these notices of publication?
- 21 A. Yes, they are.
- Q. Then let's turn back to Exhibit Number 3,
- 23 because I want to take a quick look at the AFE that's
- 24 attached to this letter, that was sent with this letter.
- 25 Are the costs that are reflected on this AFE consistent

- 1 with what the company has incurred for drilling similar
- 2 wells in this area?
- 3 A. Yes, they are.
- 4 Q. Has the company made an estimate of the
- 5 overhead and administrative costs while drilling this
- 6 well and also while producing this well if successful?
- 7 A. Yes, we have.
- 8 Q. Would you please provide those numbers for the
- 9 Examiners?
- 10 A. 500 a month, drilling; 550 a month while
- 11 producing.
- 12 Q. And are these costs likewise consistent with
- 13 what the company and other operators in this area charge
- 14 for similar wells?
- 15 A. Yes, they are.
- Q. And does the company request that these figures
- 17 be incorporated into any order and that the order
- 18 provide them to be adjusted in accordance with COPAS
- 19 quidelines?
- A. Yes, we do.
- Q. Now, with respect to the formation of the
- 22 nonstandard union -- first off, has the company brought
- 23 a geologist today to provide technical testimony in
- 24 support of the proposed nonstandard union?
- 25 A. Yes.

- Q. Was the company able to identify the leased mineral interest owners in the 40-acre tracts
- 3 surrounding the proposed nonstandard unit?
- 4 A. Yes, we did.
- 5 Q. And did the company then include these leased
- 6 mineral owners in the notice of this hearing?
- 7 A. Yes, we did.
- Q. And finally, then, is Exhibit Number 6 an
- 9 affidavit with attached letters providing notice of this
- 10 hearing, then, to all the affected parties?
- 11 A. Yes.
- Q. Mr. Dirks, were Exhibits 1 through 6 prepared
- 13 by you or compiled under your direction and supervision?
- 14 A. Yes, they were.
- MR. FELDEWERT: Mr. Examiner, at this time
- 16 we'd move for admission into evidence of Exhibits COG 1
- 17 through 6.
- 18 EXAMINER BROOKS: 1 through 6 are admitted.
- 19 (COG Exhibit Numbers 1 through 6 were
- 20 offered and admitted into evidence.)
- MR. FELDEWERT: That concludes my
- 22 examination of this witness.
- 23 EXAMINER BROOKS: Thank you.

24

25

- 2 BY EXAMINER BROOKS:
- 3 Q. You said the Penasco Draw pool. Is that
- 4 Penasco Draw Glorieta-Yeso, or what is it?
- 5 A. San Andres.
- 6 O. San Andres.
- 7 Now, is this to be a San Andres or a
- 8 Blinebry?

1

- 9 A. It's to be Yeso.
- 10 Q. So the Penasco Draw-San Andres pool includes
- 11 the Yeso Formation?
- 12 A. It's the San Andres-Yeso.
- Q. San Andres-Yeso pool?
- 14 A. Yes, sir.
- Q. Good. That'll be enough for me to find it.
- Now, were there any -- you said the estate
- 17 that was listed did not get notice initially, but I
- 18 didn't follow everything you said about it. Is there
- 19 any interest owner who has not been -- for whom you have
- 20 not been able to get notice to?
- 21 A. Just that one that has not been published.
- 22 Just that one.
- Q. You say it's not been published. Are you
- 24 going -- are you asking -- are you asking the case be
- 25 continued?

- 1 MR. FELDEWERT: Mr. Examiner, I intend to
- 2 ask the case be continued for two weeks to allow --
- 3 Q. (BY EXAMINER BROOKS) And you do not have an
- 4 address for the people entitled to that interest?
- 5 A. No, sir.
- 6 Q. I take it you are asking to pool only -- you
- 7 are asking for compulsory pooling only of this unit only
- 8 as to the portion that's included in the Penasco Draw
- 9 San Andres-Yeso pool?
- 10 A. Yes, sir.
- 11 Q. You're not asking for any up-hole pooling?
- 12 A. No, sir.
- 13 Q. I think that's all I need to ask.
- 14 EXAMINER BROOKS: Mr. Ezeanyim?
- 15 EXAMINER EZEANYIM: I don't have anything
- 16 for you, but --
- 17 CROSS-EXAMINATION
- 18 BY MR. EZEANYIM:
- 19 Q. The bottom hole location of the well, is it
- 20 standard or nonstandard? I didn't get what you said.
- 21 A. The bottom hole is standard.
- 22 Q. It's standard?
- A. It's standard, yes, sir.
- Q. All right. That's all.
- 25 A. Thank you.

- 1 EXAMINER BROOKS: Thank you.
- MR. FELDEWERT: Call our next witness,
- 3 then, Mr. Greg Clark, geologist.
- 4 GREG CLARK,
- 5 after having been previously sworn under oath, was
- 6 questioned and testified as follows:
- 7 DIRECT EXAMINATION
- 8 BY MR. FELDEWERT:
- 9 Q. Mr. Clark, would you please state your full
- 10 name for the record and identify by whom you are
- 11 employed and in what capacity?
- 12 A. Yes. Greg Clark, geologist for Concho.
- 13 Q. And have you previously testified before this
- 14 Division?
- 15 A. I have.
- 16 Q. And were your credentials as a petroleum
- 17 geologist accepted and made a matter of public record?
- 18 A. They were.
- 19 Q. And are you familiar with the application
- 20 that's been filed in this case?
- 21 A. Yes.
- Q. And have you, Mr. Clark, conducted a study of
- 23 the lands that are the subject of this application?
- 24 A. I have.
- 25 MR. FELDEWERT: Mr. Examiner, I would

- 1 tender Mr. Clark as an expert witness in petroleum
- 2 geology.
- 3 EXAMINER BROOKS: He is so qualified.
- 4 Q. (BY MR. FELDEWERT) Mr. Clark, if you turn,
- 5 then, to what's been marked COG Exhibit Number 7.
- 6 Please identify that for the Examiners, and then walk
- 7 them through it, please.
- 8 A. I will. This is a regional structure map on
- 9 top of the Paddock Formation. What we are depicting
- 10 here are offset fields that have been completed in the
- 11 Paddock and Blinebry in order to show the structural
- 12 analogy to where we want to drill the Clydesdale 1 Fee
- 13 #1H. The wells that are depicted in red are Paddock
- 14 producers. The wells that are depicted in blue are
- 15 Blinebry producers. And where they both have red and
- 16 blue, they were completed in both the Paddock and the
- 17 Blinebry.
- The yellow represents Concho's acreage, and
- 19 then the red line from east to west represents the
- orientation and path of the Clydesdale 1 Fee #1H, in
- 21 which we request to drill.
- 22 Q. And I may have missed it. What is the general
- 23 structural orientation here?
- A. That's correct. If you -- if you look at the
- 25 structure map, you'll see that the general dip is from a

- 1 northeast to a southwest direction. We don't see any
- 2 major faulting or any major geologic impediments that
- 3 would separate us from any of these offset fields that
- 4 we feel are analogous to where we want to drill.
- 5 O. Then turn to what's been marked as COG Exhibit
- 6 Number 8. Will you please identify that for the
- 7 Examiners, and discuss this exhibit with us, please?
- 8 A. I will. This is the same map in terms of it's
- 9 a geographic reference. The structure's been taken off.
- 10 And the main point here is to show the line of section
- in which will be the next exhibit that we'll go through.
- 12 The line of section is going to go from a south to north
- 13 direction. That is labeled A to A prime. And it
- 14 depicts wells that are in these offset fields that we
- 15 feel are analogous to where we want to drill our
- 16 Clydesdale 1 Fee #1H well.
- Q. Okay. If we keep this map in mind, we can then
- 18 move to what's been marked as COG Exhibit Number 9. Is
- 19 this a cross section, Mr. Clark, that corresponds with
- 20 COG Exhibit Number 8?
- 21 A. It is.
- 22 Q. Would you please walk the Examiners through
- 23 this COG Exhibit Number 9, please?
- 24 A. Yes. Again, this cross section is oriented
- 25 from a south to north direction, with A being on the

- 1 south end of the cross section, and A prime being to the
- 2 north. So that would be going from the Cemetary field
- 3 through the Dagger Draw, up through our Lakewood area
- 4 and to the Penasco Draw field area that we feel all
- 5 analogous to where we want to drill our Clydesdale 1 Fee
- 6 #1H well. This cross section is a stratigraphic cross
- 7 section, and it's been flattened on top of the Paddock.
- The structure's been taken away in order to
- 9 show the stratigraphic relationship of the producing
- 10 fields to where we would like to drill our well. As you
- 11 can see, there is no major stratigraphic variance from
- 12 these fields in relationship to where we would like to
- 13 drill our well. We have similar log characteristics
- 14 throughout the cross section that we feel is analogous
- to where we would like to drill our Clydesdale well.
- 16 If you'll notice, on the wells, the second
- 17 well from the left and the last well on the right, and
- 18 then the middle of depth track, there are red rectangle
- 19 boxes that represent perforated intervals within these
- 20 wells. And you'll see in the well that is the second
- 21 from the left, that that well has been perforated and
- 22 completed in the Paddock. And if you look at the last
- 23 well on the right, it also has been perforated and
- 24 completed in the Paddock.
- The first well on the left, which is to the

- 1 south, and the third well from the left and the fourth
- 2 well from the left are all Morrow gas wells. They have
- 3 not yet been completed to the Paddock. That's why you
- 4 don't see any perforated intervals there.
- 5 And then the well that we're using, that is
- 6 the second from the right, is a pilot hole of one of the
- 7 recent wells that COG has drilled, so that's why you
- 8 also don't see any completed interval within the
- 9 Paddock.
- 10 But overall, this cross section shows wells
- in offset fields that have been completed in the
- 12 Yeso-Paddock Formation, and we feel that the comparison
- is an equivalent to where we would like to drill our
- 14 Clydesdale 1 Fee #1H well.
- 15 Q. And speaking of that, looking at Exhibit Number
- 9, you've identified your target interval by way of a
- 17 red marking labeled "Lateral Interval," correct?
- 18 A. That is correct. That is the interval in which
- 19 we intend to land our horizontal well.
- 20 Q. Now, Mr. Ezeanyim had a question about the
- 21 location of the proposed well. Is COG Exhibit Number 10
- 22 a well diagram demonstrating compliance with the setback
- 23 required by the Division's rules?
- 24 A. It is.
- Q. Mr. Clark, what conclusions have you drawn from

- 1 your geologic study of this area?
- 2 A. With the work that we've done, the conclusions
- 3 are that we -- I don't feel there are any major geologic
- 4 impediments or stratigraphic differences that would keep
- 5 us from developing these wells using full-section
- 6 horizontals -- or this well, rather, from drilling
- 7 full-section horizontals.
- 8 Also feel that we can be -- efficiently and
- 9 economically, the best way to drill these wells would be
- in a horizontal fashion, and also feel that all parts of
- 11 the unit will, on average, contribute equally to the
- 12 overall production of said well.
- Q. So in your opinion, Mr. Clark, would the
- 14 granting of this application be in the best interest of
- 15 conservation, prevention of waste and the protection of
- 16 correlative rights?
- 17 A. Yes.
- 18 Q. And were COG Exhibits 7 through 10 prepared by
- 19 you or compiled under your direction and supervision?
- 20 A. Yes, they were.
- MR. FELDEWERT: Mr. Examiner, I would move
- 22 for admission into evidence of COG Exhibits 7 through
- 23 10.
- 24 EXAMINER BROOKS: 7 through 10 are
- 25 admitted.

- 1 (COG Exhibit Numbers 7 through 10 were
- 2 offered and admitted into evidence.)
- MR. FELDEWERT: That concludes my
- 4 examination of this witness.
- 5 And as I alluded to earlier, Mr. Examiner,
- 6 we would ask this be continued for two weeks to allow
- 7 published notice to the estate that is reflected on
- 8 Exhibit Number 4, the estate of Rufus Rand.
- 9 EXAMINER BROOKS: Okay. Is the two
- 10 weeks -- has the notice been published?
- MR. FELDEWERT: I believe not yet. I think
- 12 it's this Friday, tomorrow.
- 13 EXAMINER BROOKS: My concern is, I believe
- 14 that it's supposed to be published 20 days in advance,
- but I'll have to check the rule on that, because I don't
- 16 remember exactly how it's worded.
- MR. FELDEWERT: You know, I'll check that.
- 18 We may have to -- I'll let you know. We may have to
- 19 back.
- 20 EXAMINER BROOKS: Well, I need to -- you
- 21 know, I need to decide what day to continue it to.
- MR. FELDEWERT: I'm wondering -- I think
- the publication was in the newspaper of general
- 24 circulation.
- 25 EXAMINER BROOKS: Yeah. That's what I need

- 1 to figure out.
- MR. FELDEWERT: I want to say 10.
- 3 EXAMINER BROOKS: 412.
- I'm not finding it, unfortunately.
- 5 Okay. 412B: "If an Applicant has been
- 6 unable to locate persons entitled to notice after
- 7 exercising reasonable diligence, the Applicant shall
- 8 provide notice by publication and submit proof of
- 9 publication. Such proof should consist of a copy of
- 10 legal advertisement that was published ten business
- 11 days ..."
- MR. FELDEWERT: I think I had it counted.
- 13 I believe it was Friday.
- 14 EXAMINER BROOKS: I think it would be --
- 15 I'm thinking it would be today. You count the day
- 16 you're counting from, but not the day you're counting
- 17 to, under standard New Mexico and also Texas practice.
- 18 MR. FELDEWERT: Correct.
- 19 EXAMINER BROOKS: And I believe that it had
- 20 to be published today, because -- Thursday, Friday,
- 21 Monday, Tuesday, Wednesday, Thursday, Friday, Monday,
- 22 Tuesday, Wednesday. So that's your ten business days.
- MR. FELDEWERT: Let me -- my secretary
- 24 calendared it. She may have calendared it for today. I
- 25 know we were going to get going to get the publication

- 1 out, but if we could continue it for two weeks --
- 2 EXAMINER BROOKS: Yeah. I'll continue it
- 3 until November 1st. If you can show that it was
- 4 published today, you'll be okay on November 1st.
- 5 Otherwise, we'll have to continue it again until
- 6 November 29th.
- 7 MR. FELDEWERT: Correct.
- 8 EXAMINER BROOKS: Okay. Very good.
- 9 Case Number 14911 is continued to November
- 10 1 for purposes of notice.
- I didn't have any questions.
- Do you have questions --
- 13 EXAMINER EZEANYIM: Yes
- 14 EXAMINER BROOKS: -- for our witness? I'm
- 15 sorry.
- 16 Back on the record in Case Number 14911.
- Mr. Ezeanyim, you may question the witness.
- 18 CROSS-EXAMINATION
- 19 BY EXAMINER EZEANYIM:
- 20 Q. As you were talking about, if you can't get it
- in by November 4th [sic], it's going to be November
- 22 29th. And one of the questions is: Is there anything
- 23 that will impact on your operations, you know, like you
- 24 have a rig waiting or something like that? Maybe you
- 25 have to walk out and get it out today, because we don't

- 1 have anything on the 15th. So I'm wondering if you're
- 2 going to have any problem if we continue to the 29th, if
- 3 we can't get the publication out today.
- 4 A. I believe we're okay.
- 5 Q. Okay. Even though it's going to continue --
- 6 I know -- I know we can do it on November 1, but I'm
- 7 just -- in case you didn't. So I wanted to make sure
- 8 that's the day I'm looking at.
- 9 Okay. Having taken care of that, let's go
- 10 back to Exhibit Number 7 on the -- on your estimated --
- if you look -- if you look at that, I'm looking at the
- 12 well you're going to drill. First of all, what is the
- 13 pool? What is the name of the pool here?
- 14 A. It is the Yeso Formation.
- 15 Q. I mean the name of the pool.
- 16 A. I believe that was testified earlier by the
- 17 landman.
- 18 O. As what?
- 19 MR. FELDEWERT: I think it was the -- I
- 20 wrote it down. Penasco Draw San Andres-Yeso pool.
- Q. (BY EXAMINER EZEANYIM) Okay. Now, going to
- 22 Section 36 just above that Section 1. Those wells add
- 23 really to what pool?
- A. I'm not sure. I'd have to go back and look at
- 25 the application.

- 1 Q. You didn't find out who -- who owns these
- 2 wells -- I mean those wells?
- 3 A. Those are COG's wells.
- 4 O. Your wells?
- 5 A. Yes, sir.
- 6 Q. COG wells. But you don't know what pool
- 7 they're at?
- 8 A. I don't know for sure without having the APD in
- 9 front of me, sir.
- 10 Q. Now, what are the wells down south? Are those
- 11 your wells, too? Are those your wells?
- 12 A. How far south?
- 13 Q. I'm talking about, for example, Sections 24,
- 14 25, 35, 36?
- 15 A. No, sir. 35, 36 in Section 2, those are COG
- 16 wells.
- 17 Q. Those are COG wells?
- 18 A. Yes, sir.
- 19 Q. And you don't know what --
- 20 A. No, sir.
- Q. You are COG, right?
- 22 A. Yes, I am.
- 23 Q. You know where I'm going? I'm looking at --
- 24 I'm looking at where you're going to take that
- 25 orientation, you know. If those wells are produced from

- 1 there, are those wells going north-south? We want to
- 2 find the geology and why we want to go east-west in this
- 3 particular section.
- 4 A. Sir, I can answer to that if you want.
- Q. Yes. That's my question.
- 6 A. Okay. Well, if you look overall regionally,
- 7 you'll see that there are a number of wells that are
- 8 oriented north-south and a number of wells that are
- 9 oriented east-west.
- There has not been one preferred direction
- of orientation for these wells. And the reason being,
- 12 one, we have not seen any significant difference in
- 13 production from wells that are oriented east-west versus
- 14 oil wells that are oriented north-south. But from a
- 15 geologic perspective, we feel that SHmax, the maximum
- 16 horizontal stress direction, is in a northeast to
- 17 southwest direction, and as long as you drill these
- 18 wells oblique and/or perpendicular to SHmax, you're
- 19 going to be effective when you're completing these wells
- 20 in terms of your fracking.
- Q. I understand what you just said. This case is
- 22 going to be continued.
- 23 A. One second. The main purpose for the east-west
- 24 in Section 1 is the southern half of that section is
- 25 offset by Cimarex. So we only own the north half of the

- 1 section. So in order to also develop a full 160 unit,
- 2 we'd have to orient these in an east-west direction, or
- 3 we would only be able to do half-section laterals if we
- 4 did them in the north-south.
- 5 Q. Well, not if -- not if you are going to produce
- 6 more if you go north-south. I know what you're talking
- 7 about. You only address east-west. Okay. But you
- 8 don't want to drill north-south because of someone
- 9 else's interest. That's why we drill wells. I mean,
- 10 east-west is not going to impede COG interest there.
- 11 Someone may have something there. Anybody can have
- 12 something. What I'm trying to determine here is for the
- 13 technical point. It's not who owns what, because you
- 14 can drill a well regardless of who owns anything, if you
- 15 want to be the operator.
- 16 A. Sure.
- 17 Q. My only concern is, what is the proper
- 18 orientation? You know, if you are telling me the
- 19 proper -- why you do that is because you don't own an
- interest, I don't think that will fly. Because are you
- 21 going to reduce waste [sic] by going east-west, or do
- 22 we -- you know, is this more hydrocarbons if we go
- 23 north-south? I quess we can work out, I assume, even if
- 24 somebody has an interest in the south portion.
- 25 A. So normally in --

- 1 Q. So if you tell me the geology is that way and
- 2 convince me that's how we can do it, I can agree with
- 3 that, but not if somebody owns that. Somebody can walk
- 4 out and we can drill wells in that fashion. To be able
- 5 to -- what is our aim here? To get out as much
- 6 hydrocarbon as we could regardless of who owns what.
- 7 MR. FELDEWERT: Mr. Examiner, can I address
- 8 that with the witness?
- 9 EXAMINER EZEANYIM: Yes.
- 10 REDIRECT EXAMINATION
- 11 BY MR. FELDEWERT:
- 12 Q. Mr. Clark, the company has chosen, in this
- 13 particular case, to drill the well from east to west; is
- 14 that correct?
- 15 A. That's correct.
- 16 Q. In other circumstances, the company has also
- 17 chosen to drill the well north-south?
- 18 A. That is correct.
- 19 Q. In your examination of the structure, in the
- 20 geology in this area, is there any difference in terms
- 21 of the production of hydrocarbons when you orient the
- 22 well north-south or east-west?
- 23 A. We have not seen that to be the case.
- 24 EXAMINER EZEANYIM: What was the question?
- 25 What did you just ask?

- 1 Can you read that back?
- 2 (The record was read as requested.)
- 3 EXAMINER EZEANYIM: What was the answer?
- 4 THE WITNESS: No.
- 5 CONTINUED CROSS-EXAMINATION
- 6 BY EXAMINER EZEANYIM:
- 7 Q. How did you determine that?
- 8 A. Excuse me?
- 9 Q. How did you -- what -- what tells you that
- 10 there is no difference?
- 11 A. Production data.
- 12 Q. From which wells?
- 13 A. From wells in Section 32, wells in Section 5,
- 14 wells in Section 36, and then the whole Cemetary area
- 15 and a full analysis down there.
- As I testified to earlier, the first point
- 17 that we have in terms of science is the production
- 18 itself. And in the production, we have not seen, in any
- 19 of these wells that are oriented north-south versus
- 20 east-west, an appreciable difference in terms of
- 21 production because of the orientation.
- 22 And secondly, from a geologic perspective,
- 23 we have evidence and science that shows us that the SH
- 24 maximum stress direction is in a northeast to southwest
- 25 direction. Therefore, technology tells us that if we

- 1 stay oblique or perpendicular to SHmax, that you're
- 2 going to have an effective fracking when you're fracking
- 3 these wells.
- 4 And thirdly was my point about Cimarex
- 5 being to the south of this. So third being the less --
- 6 the less strength in terms of my point, and number one
- 7 being the first strength, the strongest point.
- 8 Q. Okay. Very good. What I would like to add
- 9 here is, on that Section 36, directly above Section 1
- 10 operated by COG, I would like to see information on
- 11 those wells and the pooling from --
- 12 A. We can get that to you. In terms of
- information, what information?
- Q. I want production data and from what pool they
- 15 are.
- 16 A. Okay. Well, sir, there are also other dynamics
- 17 that are going on in that Section 36.
- 18 O. What is that?
- 19 A. There are some wells that have been landed in
- 20 the lower part of the Paddock, and there are some wells
- 21 that have been landed in the upper part of the Paddock.
- 22 Q. That's why I want to know what pool they're
- 23 producing from.
- 24 A. The Yeso is Yeso.
- Q. What is the name of the -- is it the Penasco,

- 1 too? But I have some questions. You say you don't
- 2 know. Is that the Penasco or some other pool in the
- 3 Yeso?
- 4 A. I am certain that whatever pool it was assigned
- 5 to included the Yeso.
- 6 Q. Can I get the production data from those wells
- 7 in that section? As we are waiting for the continuance,
- 8 I can look at that data.
- 9 A. I'll have to get back to you on that.
- 10 EXAMINER BROOKS: Data -- the latest time
- 11 that's been reported to the OCD ---
- 12 EXAMINER EZEANYIM: Yeah.
- MR. FELDEWERT: Mr. Examiner, we should
- 14 have access to the data already within the system, and
- 15 we'd be happy to provide it to you. But that data
- 16 should be there. We can certainly provide the pool
- 17 name. I can give you -- I know the current pool number
- 18 for Section 1 for this particular well that's been
- 19 assigned by the Oil Conservation Division. The number
- 20 is 50270.
- 21 EXAMINER EZEANYIM: Yes, I know we can get
- 22 the data, but I don't know the name of wells, the IP
- 23 numbers. I can go in there and look at it.
- 24 THE WITNESS: They're in Section 36.
- MR. FELDEWERT: Mr. Examiner, I do have a

	Pane 4
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2	COUNTY OF BERNALILLO
3	
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5	I, MARY C. HANKINS, New Mexico Certified
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9	the foregoing pages are a true and correct transcript of
10	those proceedings that were reduced to printed form by
11	me to the best of my ability.
12	I FURTHER CERTIFY that the Reporter's
13	Record of the proceedings truly and accurately reflects
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15	I FURTHER CERTIFY that I am neither
16	employed by nor related to any of the parties or
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