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Page 2
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3	CASE NUMBER 15416 CALLED Encana Oil & Gas (USA) Inc.				
4	CASE-IN-CHIEF				
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6	WITNESS MONA L. BINION				
7	By Ms. Kessler	Direct 6	Redirect	Further	
8	•				
9		Examination			
10	By Examiner Jones	11			
11					
12	WITNESS ERIK GRAVEN				
13	D. W. W. J.		Redirect	Further	
14	By Ms. Kessler	15			
15		Examinat	ion		
16	By Examiner Goetze By Examiner Jones	19 21			
17	By Mr. Brooks	27			
18					
19					
20					
21					
22				PAGE	
23	Reporter's Certificate	•		33	
24				1	
25					

		Page 4
1	INDEX OF EXHIBITS	
2	Offered and Admitted	
3	ENCANA OIL & GAS (USA) INC. EXHIBIT 1	PAGE 11
5	ENCANA OIL & GAS (USA) INC. EXHIBIT 2	11
	ENCANA OIL & GAS (USA) INC. EXHIBIT 3	11
6 7	ENCANA OIL & GAS (USA) INC. EXHIBIT 4	. 11
8	ENCANA OIL & GAS (USA) INC. EXHIBIT 5	19
9	ENCANA OIL & GAS (USA) INC. EXHIBIT 6	19
	ENCANA OIL & GAS (USA) INC. EXHIBIT 7	19
10	ENCANA OIL & GAS (USA) INC. EXHIBIT 8	19
11		
13		
14	,	
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
1		

- (Time noted 8:25 a.m.) 1 EXAMINER JONES: And we will go ahead and 2 3 call case 15416, Application of Encana Oil and Gas 4 (USA), Inc., for Approval of a 640-acre Nonstandard 5 Project Area Comprised of Acreage Subject to a Single Federal Lease; For Approval to Downhole Commingle 6 7 Production From the Two Pools Underlying this Acreage and For Allowance of 330 Foot Setbacks from the Exterior 8 9 of the Proposed Project Area, San Juan County, New 10 Mexico. 11 Call for appearances. MS. KESSLER: Jordan Kessler from the Santa 12 Fe Office of Holland and Hart on behalf of the 13
- 15 EXAMINER JONES: Any other appearances?
- 16 (No response.)
- 17 EXAMINER JONES: Do you have witnesses?
- MS. KESSLER: Two witnesses today,
- 19 Mr. Examiner.

applicant.

14

- 20 EXAMINER JONES: Will the witnesses stand
- 21 and will the court reporter, please, swear in the
- 22 witnesses.
- 23 (WHEREUPON, the presenting witnesses
- 24 were administered the oath.)
- MS. KESSLER: I would like to call my first

- 1 witness.
- 2 MONA L. BINION
- 3 having been first duly sworn, was examined and testified
- 4 as follows:
- 5 DIRECT EXAMINATION
- 6 BY MS. KESSLER:
- 7 Q. Please state your name for the record and tell
- 8 the Examiner by whom you are employed and in what
- 9 capacity.
- 10 A. My name is Mona Binion. I'm employed by Encana
- 11 Oil and Gas. And I'm a land negotiator responsible for
- 12 the San Juan Basin in New Mexico.
- 13 Q. Have you previously testified before the
- 14 Division?
- 15 A. I have.
- 16 Q. Were your credentials as petroleum landman
- 17 accepted and made a matter of record?
- 18 A. They have.
- 19 Q. Are you familiar with the application that has
- 20 been filed in this case?
- 21 A. I am.
- Q. And are you familiar with the status of the lands
- 23 in the proposed project area?
- 24 A. I am.
- MS. KESSLER: I would tender Ms. Binion as

- 1 an expert in petroleum land matters.
- 2 EXAMINER JONES: She is so qualified.
- Q. Ms. Binion, can you please turn to your Exhibit 1
- 4 and describe this exhibit and state what Encana seeks
- 5 under this application.
- 6 A. Exhibit 1 is a map which depicts the application
- 7 area drawn in a box, a red box with a dashed outline.
- 8 It also depicts the outline of the two pools that exist
- 9 within the application area and the immediate
- 10 surrounding area.
- 11 The cross hatched gray area is the Basin Mancos
- 12 Gas Pool. And the purple area is the Nageezi Gallup Oil
- 13 Pool. Encana seeks to get approval for a nonstandard
- 14 project area covering the application area, which would
- 15 include a setback rule of 330 feet from the exterior
- 16 boundary of the project area and the commingling of the
- 17 production from all of the horizontal wells within that
- 18 area from the Nageezi Gallup Pool and the Basin Mancos
- 19 Pool.
- 20 Q. Are the 330-foot setbacks an exception to the
- 21 Basin Mancos Pool rules?
- 22 A. It is an exception to the Basin Mancos Pool
- 23 rules, yes.
- Q. And the Basin Mancos Pool has 320-acre spacing,
- 25 correct?

- 1 A. Correct.
- 2 Q. And the Nageezi Gallup has 40-acre spacing?
- 3 A. Correct.
- Q. What is the nature of the acreage in section 10?
- 5 A. The acreage is underlying an oil and gas lease
- 6 from the federal government. And it is one single
- 7 lease. The leasehold ownership, operating rights, and
- 8 record of title is owned by Encana 100 percent. And
- 9 there are no additional overriding royalty interests
- 10 under this lease.
- 11 Q. Is this lease still in its primary term?
- 12 A. The lease is in its primary term, due to expire
- in 2017; however, it is currently producing by an
- 14 existing horizontal well.
- 15 Q. So it will be held by production in 2017?
- 16 A. Correct.
- 17 Q. And will approval of the proposed project area
- 18 allow Encana to orient its wells for a maximum
- 19 recovery?
- 20 A. It will.
- Q. Will it also avoid administrative applications
- 22 for nonstandard locations in the Basin Mancos and
- 23 nonstandard spacing units in overlapping project
- 24 areas?
- 25 A. It will.

- 1 Q. Do you expect oil production from the proposed
- 2 horizontal wells?
- 3 A. We do.
- 4 Q. If you could turn to Exhibit 2 and identify this
- 5 exhibit for the Examiners.
- 6 A. Exhibit 2 is an application for downhole
- 7 commingling. And it is an application that would cover
- 8 all the horizontal wells that would be drilled in this
- 9 project area.
- And it is to commingle the production from both
- 11 the Nageezi Gallup Oil Pool and the Basin Mancos Gas
- 12 Pool.
- Q. Does this application show that the oil gravity
- 14 and gas BTU is identical?
- 15 A. Yes, they are, but in both pools.
- Q. And you mention that there are no overriding
- 17 royalty interests in this section; is that correct?
- 18 A. That's correct.
- 19 Q. Did you send a copy of this C-107(a) to BLM?
- 20 A. We did.
- Q. Did you also identify the effective parties in
- 22 all of the spacing units surrounding section 10?
- A. We did identify the working interest owners, the
- 24 operators within the surrounding spacing units.
- Q. And were they -- they were provided notice of

- 1 this hearing?
- 2 A. Yes, they were.
- 3 Q. Were you able to find addresses of record for all
- 4 of the affected parties?
- 5 A. We did find addresses of record for all the
- 6 affected parties, yes.
- 7 Q. But were two of those notice green cards returned
- 8 as undeliverable?
- 9 A. They were.
- 10 Q. So was it necessary to publish notice for this
- 11 hearing?
- 12 A. We did publish notice, yes.
- 13 Q. Is that notice of publication included as
- 14 Exhibit 3?
- 15 A. Yes.
- 16 O. And it is directed to the two entities whose
- 17 green cards were returned as undeliverable?
- 18 A. Yes.
- 19 Q. Is Exhibit 4 an affidavit of publication --
- 20 excuse me -- an affidavit prepared by my office with
- 21 attached letters providing notice of the hearing to
- 22 addresses of record for affected parties?
- 23 A. Yes, it is.
- Q. Did you prepare Exhibits 1 and 2 or were they
- 25 compiled under your direction and supervision?

- 1 A. Yes, they were.
- MS. KESSLER: Mr. Examiner, I move admission
- 3 of Exhibits 1 through 4, which includes the two
- 4 affidavits as well.
- 5 EXAMINER JONES: Exhibit 1 through 4 are
- 6 admitted.
- 7 (Encana Oil and Gas (USA) Inc. Exhibits 1
- 8 through 4 were offered and admitted.)
- 9 MS. KESSLER: That concludes my examination.
- 10 EXAMINER GOETZE: No questions for this
- 11 witness.
- 12 EXAMINER JONES: David.
- MR. BROOKS: No questions.
- 14 EXAMINATION BY EXAMINER JONES
- 15 EXAMINER JONES: You mentioned the first
- 16 well out there. I was kind of sleeping during that
- 17 time. Can you repeat that one more time.
- 18 THE WITNESS: The only well that I mentioned
- 19 was an existing horizontal well that was drilled on
- 20 another portion of the oil and gas lease that falls
- 21 under this --
- 22 EXAMINER JONES: So the lease is held.
- THE WITNESS: Yes.
- 24 EXAMINER JONES: Okay. I saw three plugged
- 25 wells. They were drilled recently and then plugged in

- 1 the last few months actually on this section. Were
- 2 those just test wells or --
- 3 THE WITNESS: I really am not aware of what
- 4 wells you may be referring to. I defer to possibly our
- 5 next witness. He may be aware.
- 6 There are no Encana wells -- there are no
- 7 recent Encana wells that have been drilled in that
- 8 section to my knowledge.
- 9 EXAMINER JONES: This is section 10 of 23
- 10 north, eight west?
- 11 THE WITNESS: Yes, sir.
- 12 EXAMINER JONES: They were probably headed
- off in a different direction or something but spud on
- 14 this lease.
- 15 THE WITNESS: There were some WPX horizontal
- 16 wells where the surface location was on this lease. But
- 17 the lateral and the production interval is in a section
- 18 offsetting this lease. So you may be looking at those
- 19 wells.
- 20 EXAMINER JONES: Okay. They had Encana as
- 21 the current operator, but they were plugged 10/16 of
- 22 '15. It could have been an entry -- an entry issue from
- 23 some of our people in the Aztec District or something
- 24 but -- anyway, that's -- they are plugged, whoever they
- 25 -- they're plugged.

- 1 The Basin Mancos spacing unit within this
- 2 project area would be a stand-up, the east half?
- 3 THE WITNESS: Correct. Because the west
- 4 half is under the Nageezi Gallup Pool, which would be
- 5 40-acre spacing units.
- 6 EXAMINER JONES: So the project area would
- 7 encompass nine spacing units, one of which would be a
- 8 stand-up 320 and the other eight would be 40-acre
- 9 Nageezi Gallup?
- 10 THE WITNESS: Correct.
- 11 EXAMINER JONES: So on the Nageezi Gallup,
- 12 you are not asking to form an oversized nonstandard
- 13 spacing unit that would consist of the west half. You
- 14 are just -- you want to leave those spacing units but
- 15 you want just approval of the project area?
- THE WITNESS: That's what our application
- 17 requests, yes.
- 18 EXAMINER JONES: And this lease, you said it
- 19 is all Encana and it is -- is the leasing entity for
- 20 Encana the same as the operating entity --
- THE WITNESS: Yes.
- 22 EXAMINER JONES: -- with that same name?
- THE WITNESS: Yes.
- 24 EXAMINER JONES: Which is OGRID 282327?
- 25 THE WITNESS: I am not familiar with the

- 1 OGRID number.
- 2 EXAMINER JONES: Okay. Is this an old, old
- 3 federal lease.
- THE WITNESS: It was issued in 2007.
- 5 EXAMINER JONES: So you guys got an
- 6 assignment from whoever got the lease --
- 7 THE WITNESS: We acquired this lease from
- 8 QEP Energy, yes.
- 9 EXAMINER JONES: And the surface of the
- 10 lands out here are Indian lands?
- 11 THE WITNESS: I'm unaware of what the
- 12 surface ownership is. I don't know that answer.
- 13 EXAMINER JONES: There is not going to be
- 14 any issues with surface locations?
- THE WITNESS: We have existing permits that
- 16 are approved which contain surface locations that are
- 17 located within section 10. Those wells were originally
- 18 permitted to be drilled oblique, which would be east to
- 19 west.
- This application would allow us to sundry
- 21 those permits to make the orientation transverse, which
- 22 will be from southeast to northwest.
- 23 EXAMINER JONES: So they will all be in Unit
- 24 letter P?
- 25 THE WITNESS: No. There's another bit of

- 1 testimony that will show our development plans.
- 2 EXAMINER JONES: Okay. I don't have any
- 3 more. Thank you very much.
- 4 MS. KESSLER: I will call my next witness.
- 5 ERIK GRAVEN
- 6 having been first duly sworn, was examined and testified
- 7 as follows:
- 8 DIRECT EXAMINATION
- 9 BY MS. KESSLER:
- 10 Q. Would you please state your name for the record
- and tell the Examiners by whom you're employed and in
- 12 what capacity.
- 13 A. Yes. I am Erik Graven. I'm a senior geologist
- 14 with Encana, working the San Juan Basin of New Mexico.
- 15 Q. Have you previously testified before the
- 16 Division?
- 17 A. Yes, I have.
- 18 Q. And were your credentials as an expert in
- 19 petroleum geology accepted and made a matter of record?
- 20 A. Yes.
- 21 Q. Are you familiar with the application filed in
- 22 this case?
- 23 A. Yes.
- Q. And have you conducted a geologic study of the
- 25 lands that are the subject of this application?

- 1 A. I have.
- 2 MS. KESSLER: I tender Mr. Graven as an
- 3 expert in petroleum geology.
- 4 EXAMINER JONES: He is so qualified.
- 5 Q. Can you please turn to Exhibit 5 and identify
- 6 this exhibit for the Examiners.
- 7 A. Yes. This is a map showing the outline of the
- 8 proposed project area encompassing section 10, outlined
- 9 in red on the map.
- 10 It also shows the adjacent Betonnie Tsosie, which
- is currently proposed, outlined in green. That's
- 12 adjacent to section 10, just to the east.
- And then it also shows our proposed development
- 14 plan showing five wells that would be drilled from the
- 15 southeast to the northwest.
- Q. What is the proposed target of the horizontal
- 17 wells?
- 18 A. That would be the Gallup sandstone member of the
- 19 Mancos shale.
- Q. And why are transverse wells the preferred
- 21 orientation?
- 22 A. The orientation of maximum horizontal stress in
- 23 this area is from northeast to southwest. So induced
- 24 fractures, fractures induced by fracturing would
- 25 propagate in that same direction. Therefore, drilling

- 1 perpendicular to that direction gives us the most
- 2 efficient development plan.
- 3 Q. Does the formation extend across the proposed
- 4 project area?
- 5 A. Yes, it does.
- 6 Q. And have you prepared a structure map and cross
- 7 sections to support this conclusion?
- 8 A. Yes, I have.
- 9 Q. Will you please turn to Exhibit 6 and identify
- 10 this exhibit for the Examiners.
- 11 A. Yes. This is a structure contour map drawn on
- 12 top of the Mancos shale. It has a contour interval of
- 13 20 feet.
- 14 It shows gently dipping beds to the north,
- 15 northeast, with dips roughly at 2 degrees. There is no
- 16 indication of faulting in this area. It's a fairly
- 17 featureless structure across the project area.
- 18 Q. Have you identified any other geologic
- 19 impediments that would prevent the acreage from
- 20 contributing to the overall production from the
- 21 anticipated wellbores?
- 22 A. No, I have not.
- Q. Would you please turn to Exhibit 7 and identify
- 24 this exhibit for the Examiners.
- 25 A. Yes. Exhibit 7 is cross section A, A Prime,

- 1 which was shown on the previous map exhibit. It extends
- 2 from the northwest to the southeast across the proposed
- 3 project area.
- 4 The various log tracks that are shown on each of
- 5 the wells are the gamma ray log on the far-left-hand
- 6 track as a rough indication of increasing clay content
- 7 as it deflects to the right.
- 8 The second track just to the right of the depth
- 9 track is a resistivity log, indicating oil saturation
- 10 with deflections to the right.
- And then in the third track on each of the wells
- is a porosity log with increasing porosity shown in red.
- 13 A number of the wells are missing some log data. But
- 14 each of them has a continuous resistivity curve across
- 15 the Mancos shale. And it shows continuity of these
- 16 intervals across the entire project area.
- 17 Q. Do you consider these four wells to be
- 18 representative of wells in the area?
- 19 A. I do.
- 20 Q. Please turn to Exhibit 8 and identify this
- 21 exhibit for the Examiners.
- 22 A. Yes. Exhibit 8 is cross section B, B Prime also
- 23 shown on the previous map exhibit. This extends from
- 24 the southwest to the northeast, showing the same logs as
- 25 the previous A, A Prime exhibit. It also shows

- 1 continuity of the target reservoir across the project
- 2 area.
- Q. So, in your opinion, is the Mancos formation
- 4 continuous across section 10?
- 5 A. Yes, it is.
- Q. Will the federal lease covering section 10
- 7 contribute to the production from the planned horizontal
- 8 wellbores?
- 9 A. Yes, it will.
- 10 Q. In your opinion, will approval of this
- 11 application be in the best interests of conservation for
- 12 the prevention of waste and the protection of
- 13 correlative rights?
- 14 A. Yes, it will.
- Q. And were Exhibits 5 through 8 prepared by you or
- 16 under your direction and supervision?
- 17 A. Yes, they were.
- MS. KESSLER: Mr. Examiners, I'd move into
- 19 evidence Encana Exhibits 5 through 8.
- 20 EXAMINER JONES: Exhibits 5 through 8 are
- 21 admitted.
- 22 (Encana Oil and Gas (USA) Inc. Exhibits 5
- 23 through 8 were offered and admitted.)
- 24 MS. KESSLER: That concludes my
- 25 examination.

- 1 EXAMINATION BY EXAMINER GOETZE
- 2 EXAMINER GOETZE: Good morning. Did you
- 3 have a discussion with the district geologist in the
- 4 Aztec District regarding your cross sections and your
- 5 selection of intervals?
- 6 THE WITNESS: No, I have not.
- 7 EXAMINER GOETZE: Was any correlation made
- 8 with the adjacent -- I believe we have another unit, the
- 9 Betonnie Tsosie Wash Unit to the east. Is there type
- 10 section carryover from there or is that something out of
- 11 your realm?
- 12 THE WITNESS: It does carry over from there.
- 13 Correlations are very good between this project area and
- 14 the adjacent --
- 15 EXAMINER GOETZE: We are looking at the same
- 16 target interval?
- 17 THE WITNESS: Yes.
- 18 EXAMINER GOETZE: And as far as the proposed
- 19 wells in Exhibit 5, basically that's a generic type of
- 20 presentation; it's not really presented as a plan yet to
- 21 the BLM?
- THE WITNESS: No. We have not presented
- 23 this plan to the BLM. To the best of our knowledge,
- 24 this is how we'd layout the plans if we were to drill
- 25 the wells tomorrow.

- 1 EXAMINER GOETZE: I have no further
- 2 questions. Thank you.
- 3 EXAMINATION BY EXAMINER JONES
- 4 EXAMINER JONES: Okay. So to continue with
- 5 that. But this would be what you would recommend to
- 6 your management, as far as drilling from southeast to
- 7 northwest?
- 8 THE WITNESS: Yes.
- 9 EXAMINER JONES: And even if it includes
- 10 those two shorter laterals or shorter horizontals?
- 11 THE WITNESS: Correct. At this point --
- 12 well, it probably wouldn't be economic at today's
- 13 prices, but at a future price tag those would be...
- 14 EXAMINER JONES: So where would you drill
- 15 your first one?
- THE WITNESS: The first well would probably
- 17 be the longest well through the center of the section.
- 18 And we do have an existing permit as Mona Binion
- 19 testified. That is from a pad in the M location of
- 20 section 11.
- 21 And it is currently permitted to drill east
- 22 to west across the south half of the south half of
- 23 section 10. We would sundry that to drill the long well
- 24 across the center of the section transverse.
- 25 EXAMINER JONES: Is that proposed to the

- 1 BLM?
- THE WITNESS: We haven't proposed the sundry
- 3 yet, but that would be our plan as soon as this project
- 4 area --
- 5 EXAMINER JONES: The APD is in to their
- 6 office?
- 7 THE WITNESS: Yes, for the east to west
- 8 well.
- 9 EXAMINER JONES: I guess I just didn't see
- 10 it in the OCD records yet. So BLM has to do it first,
- 11 and then they send it back to OCD to put it on their
- 12 records.
- 13 THE WITNESS: Okay. I may be mistaken, but
- 14 I was pretty sure that was approved.
- 15 EXAMINER JONES: An APD number?
- 16 We must have a problem here because when I
- 17 pulled up that section, it only showed -- it showed
- 18 three wells, but they were all plugged. And they were
- 19 all in Unit letter I, though. So there may be issue
- 20 with our data entry or something. That is probably what
- 21 it is.
- But if this -- is this in the area? Do you
- 23 know if the proposed Basin Mancos Oil Pool -- in other
- 24 words, if that comes into effect, this would be sucked
- 25 into that big black hole of the pool and it would

- 1 actually take care of the spacing? In other words, you
- 2 could probably drill your wells a little bit further if
- 3 you wanted to?
- 4 THE WITNESS: I believe so. I'm not too
- 5 familiar with that pool as it's being set up. But I
- 6 believe that is true.
- 7 EXAMINER JONES: Your gamma rays, are
- 8 these -- is it pretty indicative of potassium or does it
- 9 have some radioactive -- I mean, the thorium uranium?
- 10 THE WITNESS: Yeah, I believe it's more
- 11 indicative of potassium. I'm sure there's some uranium
- 12 in there as well. But TOC is fairly low throughout the
- 13 section.
- 14 EXAMINER JONES: Okay. So your first target
- 15 is the Gallup sands. And where would that be on like
- 16 Exhibit 7? Where would you -- where would you land your
- 17 lateral?
- 18 THE WITNESS: That would be in the lower
- 19 part of the Gallup. It's basically in the lower half of
- 20 the Gallup.
- 21 EXAMINER JONES: So where it says "Base
- 22 Gallup," would that be above that line?
- THE WITNESS: Right. Roughly 50 feet above
- 24 that line we'd land. And then we may drill up section
- 25 or just try to keep it in that interval.

- 1 EXAMINER JONES: Okay. Now, that Nageezi
- 2 Gallup Pool, where is that sand that that Nageezi Gallup
- 3 Pool was going after? Where were they completing their
- 4 vertical wells?
- 5 THE WITNESS: Generally they would complete
- 6 the entire Gallup. And I believe some of them may have
- 7 completed the Dakota, but I'm not sure on that.
- 8 EXAMINER JONES: Okay. But it doesn't
- 9 include the Dakota -- does it? --
- 10 THE WITNESS: No.
- 11 EXAMINER JONES: -- it's just a Gallup pool?
- 12 THE WITNESS: Correct.
- 13 EXAMINER JONES: So they were shooting for
- 14 some sands in here somewhere. And it's just kind of
- 15 hard for me to see the sands on this.
- 16 THE WITNESS: I believe on both of these
- 17 cross sections, the perforations, they're fairly faint,
- 18 but they are shown in pink in the depth column.
- 19 EXAMINER JONES: Okay. Yeah, there they
- 20 are. So they just moved uphole hitting the sands and --
- 21 THE WITNESS: And, also, I should point out,
- 22 we do have felspar rich sands in here which cause a clay
- 23 signature on the gamma ray. It looks like it's more
- 24 potassium rich clays, but, in fact, they are felspar
- 25 rich sands.

- 1 EXAMINER JONES: What does that do to your
- 2 permeability and porosity?
- 3 THE WITNESS: We still appear to have
- 4 excellent perm and porosity in those sands. They just
- 5 don't look like sands in the gamma ray log.
- 6 EXAMINER JONES: Okay. So that's felspar or
- 7 igneous? Phil?
- 8 EXAMINER GOETZE: Yes, they are.
- 9 EXAMINER JONES: So you got some events that
- 10 were happening during this time?
- 11 THE WITNESS: Yes. They are eroded sand
- 12 grains from igneous into regions distant.
- 13 EXAMINER JONES: So you would be drilling
- 14 basically underneath where they perforated and fracking
- 15 up into those sands, it sounds like?
- 16 THE WITNESS: In some cases, yes. If you
- 17 look at cross section B, B Prime, in that case, we would
- 18 be targeting in their upper set of perforations, near
- 19 5,200 feet in the Federal 1541 well. The second well
- 20 from the right.
- 21 EXAMINER JONES: Okay.
- THE WITNESS: And that well they targeted
- 23 the lower Gallup with their vertical perforations,
- 24 targeting that same interval.
- 25 EXAMINER JONES: Okay. So would you be

- 1 developing all the -- do you anticipate possibly
- 2 developing all of the 40-acre Nageezi spacing units that
- 3 would be in this project area, which would be over in
- 4 the west half?
- 5 In other words, if you -- if you had -- if
- 6 you were able to drill all the wells you wanted to
- 7 drill, would you end up developing -- penetrating all of
- 8 those?
- 9 THE WITNESS: Yes, we would.
- 10 That well that's shown on the development
- 11 plan, the short well furthest to the southwest, would
- 12 just cover that southwesternmost 40.
- 13 EXAMINER JONES: So this downhole commingle
- 14 that you are asking for, that would be 50/50 in the
- 15 whole section upfront. So with every barrel of oil
- 16 coming out, half of that would go to Nageezi Gallup and
- 17 half would go to the Basin Mancos from the start; is
- 18 that correct? Every well would be 50/50?
- 19 THE WITNESS: Yes, I believe that's correct.
- 20 EXAMINER JONES: A 50/50 completion?
- MS. BINION: That's the way the C-107 is
- 22 filed, yes, 50/50.
- 23 EXAMINER JONES: Okay. I don't have any
- 24 more questions, unless these guys do.
- 25 EXAMINER GOETZE: No, no more questions.

- 1 MR. BROOKS: I would like to ask a couple of
- 2 questions if I may.
- 3 EXAMINATION BY MR. BROOKS
- 4 MR. BROOKS: I think this may have already
- 5 been covered, but I just want to clarify a little bit.
- This Exhibit, I guess it's Exhibit 5 that
- 7 you have, this one, the one with the section 10, with
- 8 one of the proposed wells shown. If I just eyeball
- 9 this, it appears that this long well that goes from the
- 10 northwest corner of 10 down to -- from the -- from the
- 11 region around the northwest corner of 10 down to the
- 12 southeast corner, it would look like it goes right
- 13 through the -- right along the transverse and,
- 14 therefore, it would go through the center of the
- 15 section.
- THE WITNESS: Uh-huh.
- 17 MR. BROOKS: And you said that -- as I
- 18 recall in response to Mr. Jones's question -- that the
- 19 farthest northeasterly of those wells -- I forget
- 20 whether you were talking about the farthest
- 21 northeasterly or the farthest northwesterly, but you
- 22 said that those would pick up the northeast quarter of
- 23 the northeast quarter and the southwest quarter of the
- 24 southwest respectively if you drilled this entire plan;
- 25 is that correct?

1 THE WITNESS: Yes. MR. BROOKS: Okay. Now, if you accept the 2 3 view that some people have taken that if a well goes through the center -- goes through the four corners 4 between two -- between -- between four 40-acre spacing 5 units -- do you understand what I mean? 6 7 THE WITNESS: I believe so. 8 MR. BROOKS: Okay. But it doesn't develop 9 any of them by virtue of including that corner, which seems strange to me -- but I have run into people who 10 11 believe that that's what our rule says -- then you could achieve the same result, I would assume, could you not, 12 13 by shifting all the wells just a few feet off the 14 corner? 15 In other words, if the Division were of the 16 opinion that the farthest northeasterly of those wells 17 did not develop the northwest quarter of the northwest 18 quarter by virtue of being through the -- going through 19 the crosshairs there --20 THE WITNESS: Right. MR. BROOKS: -- at the four corners of the 21 22 various subdivisions of the northeast quarter, you could 23 shift the well slightly to the northwest, and then it would include the northwest quarter, the northwest 24

25

quarter?

- 1 THE WITNESS: Right.
- MR. BROOKS: And you would have to shift the
- 3 farthest southwest quarter of the well the other
- 4 direction?
- 5 THE WITNESS: Yes.
- 6 MR. BROOKS: What I can't be sure of
- 7 myself -- and maybe you plotted it out, I haven't -- is
- 8 could you shift -- could you shift the wells in such a
- 9 way that they would still penetrate all 16 quarter,
- 10 quarters within section 10, and still just drill five
- 11 wells and not six?
- 12 THE WITNESS: Yes. And I believe the way
- 13 even the southwesternmost and northeasternmost wells are
- 14 currently laid out in this figure, they actually do
- 15 penetrate those quarter, quarter sections. They aren't
- 16 right on the corner there. They're --
- MR. BROOKS: You are a geologist, right?
- THE WITNESS: Yes.
- MR. BROOKS: You are not a drilling
- 20 engineer?
- THE WITNESS: No.
- MR. BROOKS: So you wouldn't be the person
- 23 to whom I would ask can you actually plan to drill a
- 24 well through the four corners of the four quarter,
- 25 quarter sections and be reasonably certain that it

- 1 actually will penetrate that exact point?
- 2 THE WITNESS: Right. That sounds
- 3 unreasonable to me at this point.
- 4 MR. BROOKS: Well, that's a question for a
- 5 drilling engineer. And so many things can be done these
- 6 days that would have sounded unreasonable a few years
- 7 ago, so I don't know.
- 8 MS. KESSLER: To remind the Examiners, the
- 9 east half of the section is actually Basin Mancos Gas
- 10 Pool, so it's just 120-acre spacing unit.
- 11 MR. BROOKS: Well, I'm basically trying to
- 12 explore the ways these things can be plotted, is the
- 13 basis of my question.
- 14 Now, I believe you also said in response to
- 15 Mr. Jones's question that the short wells depicted in
- 16 the northwest -- in the northeast and southwest portions
- 17 of section 10 would have been economic at some price
- 18 that may have existed in the reasonably --
- THE WITNESS: Yes.
- MR. BROOKS: -- in the reasonably recent
- 21 past --
- 22 THE WITNESS: Correct.
- MR. BROOKS: Though not at the present?
- 24 THE WITNESS: Correct.
- MR. BROOKS: It may be questionable whether

Page 31

- 1 anything is economic at the present prices.
- I think that's all I have.
- 3 EXAMINER JONES: I guess one more
- 4 question -- Bill might have a question?
- 5 EXAMINER GOETZE: No, I don't.
- 6 EXAMINER JONES: The effective date of this
- 7 would not be -- you are not asking for it to be -- us to
- 8 wait until you develop all of them before the project
- 9 area would be in effect, are you?
- MS. KESSLER: No, Mr. Examiner.
- 11 EXAMINER JONES: You want it to be
- 12 immediately allocated to the whole section, basically,
- 13 all nine spacing units?
- 14 MS. KESSLER: Correct.
- 15 EXAMINER JONES: And you are not asking for
- 16 any allowable increases or anything?
- MS. KESSLER: Not at this time.
- 18 EXAMINER JONES: Hopefully you'd have that
- 19 issue. I don't think we have anything else.
- 20 Thank you very much, Mr. Graven. Do you
- 21 have another witness.
- 22 MS. KESSLER: No. That concludes our
- 23 presentation.
- 24 EXAMINER JONES: Okay. With that, let's
- 25 take case 15416 under advisement. And this docket is

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7	REPORTER'S CERT	IFICATE			
8		Mavico Reporter CCR			
9	I, ELLEN H. ALLANIC, New Mexico Reporter CCR No. 100, DO HEREBY CERTIFY that on Thursday, February 18, 2016, the proceedings in the above-captioned matter were taken before me, that I did report in stenographic				
10					
11	shorthand the proceedings set forth herein, and the foregoing pages are a true and correct transcription to the best of my ability and control.				
12		51.			
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14	I FURTHER CERTIFY that I am neither employed by nor related to nor contracted with (unless excepted by				
15		the rules) any of the parties or attorneys in this case, and that I have no interest whatsoever in the final disposition of this case in any court			
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