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STATE OF NEW MEXICO	
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT	
OIL CONSERVATION DIVISION	
IN THE MATTER OF THE HEARING ) CALLED BY THE OIL CONSERVATION ) DIVISION FOR THE PURPOSE OF ) CONSIDERING: ) CASE NO. 11,096 ) APPLICATION OF AMOCO PRODUCTION ) COMPANY )	
ORIGINAL	
REPORTER'S TRANSCRIPT OF PROCEEDINGS	
EXAMINER HEARING	
BEFORE: MICHAEL E. STOGNER, Hearing Examiner October 27th, 1994 Santa Fe, New Mexico OIL CONSERVATION DIVISIO	
This matter came on for hearing before the Oil	
Conservation Division on Thursday, October 27th, 1994, at	
Morgan Hall, State Land Office Building, 310 Old Santa Fe	
Trail, Santa Fe, New Mexico, before Steven T. Brenner,	
Certified Court Reporter No. 7 for the State of New Mexico	••
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INDEX

October 27th, 1994 Examiner Hearing CASE NO. 11,096

**APPEARANCES** 3 **APPLICANT'S WITNESSES:** JULIE TALBOT Direct Examination by Mr. Carr 4 Examination by Examiner Stogner 10 JAMES WILLIAM HAWKINS Direct Examination by Mr. Carr 12 Examination by Examiner Stogner 18 23

**REPORTER'S CERTIFICATE** 

\* \* \*

EXHIBITS

	Identified	Admitted
Exhibit 1	7	18
Exhibit 2	9	18

\* \* \*

STEVEN T. BRENNER, CCR (505) 989-9317

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## A P P E A R A N C E S

FOR THE DIVISION:

RAND L. CARROLL Attorney at Law Legal Counsel to the Division State Land Office Building Santa Fe, New Mexico 87504

FOR THE APPLICANT:

CAMPBELL, CARR, BERGE & SHERIDAN, P.A. Suite 1 - 110 N. Guadalupe P.O. Box 2208 Santa Fe, New Mexico 87504-2208 By: WILLIAM F. CARR

\* \* \*

WHEREUPON, the following proceedings were had at 1 9:06 a.m.: 2 Call next case, Number 11,096 EXAMINER STOGNER: 3 4 MR. CARROLL: Application of Amoco Production 5 Company for downhole commingling, San Juan County, New Mexico. 6 7 EXAMINER STOGNER: Call for appearances. 8 MR. CARR: May it please the Examiner, my name is 9 William F. Carr with the Santa Fe law firm Campbell, Carr, Berge and Sheridan. 10 11 I represent Amoco Production Company, and I have 12 two witnesses. EXAMINER STOGNER: Are there any other 13 14 appearances? There being none, will the witnesses please stand 15 to be sworn? 16 (Thereupon, the witnesses were sworn.) 17 EXAMINER STOGNER: Mr. Carr? 18 19 JULIE TALBOT, 20 the witness herein, after having been first duly sworn upon her oath, was examined and testified as follows: 21 22 DIRECT EXAMINATION BY MR. CARR: 23 24 0. Will you state your name for the record, please. My name is Julie Talbot. 25 Α.

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1 Q. Where do you reside? 2 Denver, Colorado. Α. By whom are you employed? 3 Q. 4 Amoco Production company. Α. What is your current position with Amoco 5 Q. Production Company? 6 7 I'm a petroleum land negotiator. Α. Ms. Talbot, have you previously testified before 8 Q. this Division? 9 10 Α. Yes, I have. At the time of that testimony, were your 11 ο. 12 credentials as a petroleum land negotiator accepted and 13 made a matter of record? Yes, they were. 14 Α. Are you familiar with the Application filed in 15 Q. this case? 16 17 Α. I am. 18 0. And are you familiar with the subject well? 19 Α. Yes, sir. 20 MR. CARR: Are the witness's qualifications 21 acceptable? 22 EXAMINER STOGNER: They are. This is the first time I've heard of a petroleum 23 24 land negotiator. (By Mr. Carr) Ms. Talbot, since you've been 25 Q.

1	qualified, I guess, as one
2	A. It's politically correct.
3	Q could you review for the Examiner what is a
4	petroleum land negotiator?
5	A. A petroleum land negotiator is also known as a
6	petroleum landman.
7	EXAMINER STOGNER: Okay, I didn't know if there
8	was any other
9	THE WITNESS: There's no distinction.
10	EXAMINER STOGNER: Okay.
11	Q. (By Mr. Carr) And this what you are called at
12	Amoco?
13	A. That's the official title at Amoco.
14	EXAMINER STOGNER: Actually, I like that, I like
15	that. Thanks for explaining that.
16	Mr. Carr, Ms. Talbot is so qualified.
17	MR. CARR: Thank you, Mr. Stogner.
18	Q. (By Mr. Carr) Could you briefly summarize for
19	the Examiner what Amoco seeks in this case?
20	A. Yes, sir, we're seeking approval to downhole
21	commingle the Basin Dakota Pool gas production with the
22	Flora Vista-Gallup Pool gas production in the wellbore of
23	the L.C. Kelly Well Number 3-E, which is in Section 4 of
24	Township 30 North, 12 West, in San Juan County, New Mexico.
25	Q. Have you prepared, or has there been prepared

1	under your direction, certain exhibits for presentation in
2	this case?
3	A. Yes, I have.
4	Q. And are those exhibits contained in the front
5	portion of the exhibit pamphlet which has been marked Amoco
6	Exhibit Number 1?
7	A. Yes, they are.
8	Q. Would you refer to that and identify what is the
9	first page in this exhibit?
10	A. The first page is simply a copy of the
11	Application for our case.
12	Q. And this is what was filed with the Oil
13	Conservation Division in this matter?
14	A. Yes, it is.
15	Q. And this is also the Application that was sent to
16	those individuals who are entitled to know this, and we'll
17	get to that letter?
18	A. That is correct.
19	Q. All right. Let's go to the second page in the
20	exhibit. Identify first what this is and then review the
21	information for Mr. Stogner.
22	A. This is simply a nine-section plat showing the
23	location of the spacing unit of the L.C. Kelly Number 3-E
24	well, which is in the north half of Section 4 of Township
25	30 North, Range 12 West, and also It's a spacing unit
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1	for the Dakota formation and also all the offsetting 320-
2	acre spacing units for the Dakota formation.
3	Indicated with the letter 1, those offsetting
4	spacing units are where Amoco operates a Dakota well or
5	owns the operating rights in the Dakota formation.
6	Where the number 2 is indicated, that is where
7	Southland Royalty either operates a Dakota well or owns the
8	operating rights in the Dakota formation.
9	Q. The only other offsetting operator is Southland?
10	A. That's correct.
11	Q. And they were notified of the hearing?
12	A. Yes, they were.
13	Q. All right, let's go to the next plat, which shows
14	the spacing unit for the Gallup formation.
15	A. That's correct, in the northeast quarter of
16	Section 4 is the Gallup spacing unit. This plat shows the
17	offsetting operator of the Gallup formation.
18	And as you see, as indicated, 1 is where Amoco
19	operates or owns Gallup rights, and number 2 is where
20	Southland operates or owns Gallup rights.
21	Q. The X in the center of the dedicated acreage
22	shows the well location?
23	A. That's correct.
24	Q. And what is the actual footage location for the
25	well?

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1	A. It's located 1710 feet from the north line and
2	880 feet from the east line of Section 4.
3	Q. All right. Behind that are some tables. Could
4	you explain to Mr. Stogner what these show?
5	A. Yes, this is simply a listing of all the interest
6	owners within the Gallup and the Dakota formation in the
7	L.C. Kelly Number 3-E. It's broken out by working interest
8	owners, royalty interest owners, and production payment or
9	overriding royalty interest owners.
10	Q. The royalty is all United States of America?
11	A. That's correct.
12	Q. And then all the holders of the production
13	payments and the overriding royalty interests are set forth
14	on the two pages following?
15	A. That is correct.
16	Q. Marked as Exhibit Number 2 it's tucked in the
17	back of the booklet is a document. Could you identify
18	this?
19	A. Yes, this is the U.S. Post Office certified mail
20	log, which gives a listing of all the interest owners
21	showing that they were sent certified mail.
22	Q. And the stamp on the right-hand side of the
23	exhibit shows the date of mailing being August 29, 1994?
24	A. That's correct.
25	Q. And these are the names and addresses of the

people that are shown on the preceding table? 1 Α. That is correct. 2 3 0. And I see you also provided notice to Amoco 4 Production Company. Is that customary? No, that was inadvertent. 5 Α. Is there anything further that you need to 6 Q. Okay. add to your testimony or your portion of the testimony 7 8 concerning the land issues involved in this Application? 9 Α. No, sir. Were the portions of the exhibit which we have 10 Q. 11 reviewed prepared by you or compiled under your direction 12 and supervision? 13 Α. Yes, they were. And the remainder of the exhibit booklet will be 14 Q. 15 explained by the engineering witness? 16 Α. That's correct. 17 MR. CARR: Mr. Stogner, we have nothing further 18 of Ms. Talbot, and we will introduce the exhibits at the 19 conclusion of Mr. Hawkins' presentation. 20 EXAMINATION BY EXAMINER STOGNER: 21 22 Q. Ms. Talbot, so that I'm certain on this, the production payment or the overriding royalty interest 23 owners, those are common throughout both for the 160- and 24 25 320-acre proration unit?

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1	Α.	That is correct.
2	Q.	And the only variance is the working interest
3	owner, th	at seven-percent belonging to San Juan Partnership
4	in the Da	kota Formation?
5	Α.	Yes, sir.
6	Q.	And it's not there for the Gallup formation,
7	correct?	
8	Α.	That's correct.
9	Q.	So is it your understanding this is about the
10	only reas	on this matter has come to hearing, is because of
11	this?	
12	Α.	Absolutely.
13	Q.	There's an overriding royalty interest belonging
14	to Freder	ic Owen Hawkins. Is that any kin to any of
15	Amoco's e	mployees in Denver?
16	Α.	Not that I'm aware of.
17	Q.	Okay. The north half of this section, is that
18	one feder	al lease, or is that a common agreement?
19	Α.	It's one federal lease.
20	Q.	One federal lease.
21		EXAMINER STOGNER: Mr. Carr, I have no further
22	questions	of Ms. Talbot.
23		MR. CARR: We have nothing further of Ms. Talbot
24	and I wou	ld now call Bill Hawkins.
25		EXAMINER STOGNER: No kin to Frederic Owen

[		
1	Hawkins?	
2		MR. CARR: No kin to Frederic Owen Hawkins.
3		JAMES WILLIAM HAWKINS,
4	the witne	ss herein, after having been first duly sworn upon
5	his oath,	was examined and testified as follows:
6		DIRECT EXAMINATION
7	BY MR. CA	RR:
8	Q.	Will you state your name for the record, please?
9	А.	James William Hawkins.
10	Q.	Are you related to Frederic Owen Hawkins?
11	Α.	Not that I'm aware of.
12	Q.	Where do you reside?
13	Α.	Denver, Colorado.
14	Q.	By whom are you employed?
15	Α.	Amoco Production Company.
16	Q.	What is your current position with Amoco?
17	Α.	Petroleum engineer.
18	Q.	Have you previously testified before this
19	Division?	
20	Α.	Yes, I have.
21	Q.	At the time of that testimony, were your
22	credentia	ls as a petroleum engineer accepted and made a
23	matter of	record?
24	Α.	Yes.
25	Q.	Are you familiar with the Application filed in

this case on behalf of Amoco Production Company? 1 Yes, I am. 2 Α. 3 MR. CARR: Are the witness's qualifications acceptable? 4 EXAMINER STOGNER: 5 They are. (By Mr. Carr) Mr. Hawkins, have you prepared 6 Q. 7 portions of what has been marked Amoco Exhibit Number 1? A. Yes. 8 9 Q. Would you go to the plat which is marked "Plat Map"? 10 Yes the plat map. We had a discussion yesterday 11 Α. 12 whether this was a plat or a map. Q. Or both. 13 We think it is a plat. 14 Α. Anyway, would you refer to this exhibit and would 15 Q. you review the information on the exhibit for the Examiner, 16 17 please? Yes, this is a nine-section plat that shows the 18 Α. 19 location of the wells in the vicinity that are completed in the Dakota or Gallup. 20 The black dot with the arrow is the location for 21 the L.C. Kelly Number 3-E well, which is the well we're 22 23 requesting to downhole commingle in the Dakota and Gallup. 24 Also shown, I'd like to bring your attention to the L.C. Kelly Number 3, immediately to the west in that 25

1	north half. That well has already been downhole commingled
2	in the Dakota and the Gallup, and that work was done back
3	in 1972 under Order R-4335, Case Number 4740.
4	And to the immediate east of the L.C. Kelly 3-E
5	is the L.C. Kelly Number 4-E. That well has also been
6	downhole commingled in the Gallup and the Dakota, and that
7	was approved under Administrative Order DHC-475.
8	And those are the only other two Gallup producers
9	that are in this general vicinity. The other wells that
10	you see on here are Dakota producers.
11	Q. Mr. Hawkins, the wells, the two wells you've just
12	described for which Gallup and Dakota downhole commingling
13	has been approved, are they both operated by Amoco?
14	A. Yes, they are.
15	Q. Have you experienced any problems with the
16	compatibilities of the fluids that are being commingled?
17	A. No, we have not.
18	Q. All right. Let's go to the next exhibit, the
19	schematic of the well, and I'd ask you to review this for
20	the Examiner.
21	A. This is a wellbore diagram for the L.C. Kelly
22	Number 3, showing how the well is currently completed.
23	In July of 1994 we attempted a dual completion
24	with the Gallup and Dakota in this well.
25	The well is cased with 4-1/2-inch casing to

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1	bottom, and the well is perforated from 6754 to 6796. The
2	Gallup was perforated a 6030 to 6060 and then completed
3	with the Model B packer that isolates the two zones.
4	We produced this well for a period of about a
5	month and have been flowing the Gallup up the back side of
6	the tubing in the tubing casing annulus. The well has
7	died, and we're unable to lift the fluids out of the
8	Gallup.
9	Q. The result of the downhole commingling
10	Application would be that you can now produce the Gallup
11	interval, which currently will not produce?
12	A. That's correct.
13	Q. Is there any alternative available to Amoco, as
14	opposed to downhole commingling the production from these
15	two zones?
16	A. We don't really see any viable alternative. We
17	did you know, have looked at the alternative of drilling
18	a new well for the Gallup, but that is not economic.
19	We view this as the only viable alternative to
20	the current completion, and that is to downhole commingle
21	and produce the Gallup zone, commingled with the Dakota.
22	Q. Approval of the Application and downhole
23	commingling will result in a recovery of hydrocarbons that
24	otherwise would be left in the ground?
25	A. That's correct.

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1	Q. Let's go now to the next page of Exhibit Number
2	1. Would you identify that, please?
3	A. The next page is a production history for the
4	Dakota completion in this L.C. Kelly 3-E.
5	It shows we've been producing in the Dakota since
6	1983, and although this plot goes up just to the end of
7	1993, it's actually still producing into 1994. And it
8	shows a general decline down to an end-of-1993 rate of
9	about 80 MCFD.
10	We estimate the current pressure for this zone to
11	be about 780 p.s.i.
12	Q. What is the pressure that you calculate for the
13	Gallup interval?
14	A. We calculate that to be 1143 p.s.i.
15	Q. With this pressure differential, would you
16	anticipate any crossflow between the downhole commingled
17	zones?
18	A. No, we would not.
19	Q. All right, let's go to the next page, which is
20	the curve for the Gallup interval in the L.C. Kelly Number
21	3-E.
22	A. Correct. We really only have This looks like
23	a big plot, but it only covers about two weeks of time.
24	It shows that when we did bring the Gallup test
25	the Gallup well on, we were able to flow the well for a

1	period of about five days at rates of approximately 150 to
2	250 MCFD.
3	We then had some problems with the well and had
4	to shut it in, opened the well back up on August 23rd and
5	again flowed it at rates of 100 to up to 300 MCFD for one
6	day, and it generally declined down to about 90 MCFD and
7	has logged off.
8	Subsequent to that, we went in and did a Sonolog
9	test to determine fluid level, and there appears to be 3200
10	feet of condensate loading up the zone, which has killed
11	the well, and we're unable to get it to flow.
12	Q. How does Amoco propose to allocate production
13	between the zones?
14	A. We would propose to get a stabilized rate from
15	the Dakota prior to commingling, and then go ahead and take
16	out our pull our tubing and take out the packer and flow
17	the two zones commingled and fix the percentage of that
18	total rate, with the percentage that the Dakota represents
19	of that total.
20	Q. And you propose to work out the actual allocation
21	by zone with the Aztec District Office of the Oil
22	Conservation Division?
23	A. That's correct.
24	Q. Mr. Hawkins, in your opinion, will approval of
25	this Application and downhole commingling Gallup and the

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Dakota production in the L.C. Kelly Number 3-E well be in 1 2 the best interests of conservation, the prevention of waste 3 and the protection of correlative rights? Α. Yes, it will. 4 And as you've testified, it will result in the 5 Q. recovery of hydrocarbons that otherwise will not be 6 recovered? 7 8 Α. That's correct. Were the portions of Exhibit 1 that you have 9 Q. 10 reviewed then prepared by you? Α. Yes. 11 12 MR. CARR: At this time, Mr. Stogner, we would move the admission into evidence of Amoco Exhibits 1 and 2. 13 EXAMINER STOGNER: Exhibits 1 and 2 will be 14 admitted into evidence. 15 MR. CARR: And that concludes my direct 16 examination of Mr. Hawkins. 17 EXAMINATION 18 BY EXAMINER STOGNER: 19 Mr. Hawkins, what rate of fluids, that you know, 20 Q. 21 loaded up the Gallup before it logged off? I do not know the rate of the fluid. 22 Α. I take it that we were not getting very much fluid at the surface and 23 it was building up in the annulus there. 24 25 We don't really have a good estimate at this

1	point of what those what that rate of fluid would be,
2	although I would anticipate it to be probably on the order
3	of maybe 40 barrels a day or so, initially, and probably
4	decline somewhat with time.
5	Q. After this well is commingled, what kind of a
6	completion will it have? Are you going to have a pump on
7	it or anything?
8	A. We're hoping that we'll be able to flow the well
9	with just the pressure from the Gallup and the Dakota.
10	Q. You said your Gallup pressure was 1143?
11	A. That's correct. That's based on the estimated
12	fluid level of condensate in the wellbore.
13	Q. And then your Dakota had less, 780 p.s.i.; is
14	that correct?
15	A. That's correct.
16	Q. Are you suspecting that the additional gas load
17	designated by or provided by the Dakota is going to be
18	able to lift the fluid?
19	A. Well, we're hoping that with the two rates
20	combined we'll get a little better velocity up the tubing
21	and that will help lift the fluids out.
22	Q. If that isn't the case, what would Amoco then do
23	to this well?
24	A. I think we would have to consider putting some
25	type of artificial lift in there, if necessary.
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1	Q. What kind of rates are you seeing on the other
2	two wells that are presently commingled, to the west and to
3	the east of this well?
4	A. The L.C. Kelly Number 3 well, producing
5	approximately 25 to 30 MCFD out of the Gallup with only a
6	couple barrels of fluid, of oil at this point. And then
7	the Dakota is producing it looks like about 40 MCFD with
8	four or five barrels of oil a day, condensate a day. At
9	least that's what our Dwight's information indicates.
10	The L.C. Kelly Number 4-E well is producing
11	approximately 60 to 70 MCFD in the Dakota and basically
12	no you know, a very small amount of gas being allocated
13	back to the Gallup.
14	Q. Did either one of the Well 4-E or 3, were they
15	producing at the fluid levels as you're anticipating, or
16	have you recorded in the Number 3-E from the Gallup?
17	A. I'm sorry, I didn't understand your
18	Q. As far as the fluid levels in either the 3 or
19	4-E, have they ever been up to the levels of the Number 3-
20	E?
21	A. I don't know that.
22	We went in and checked this one because the well
23	died, so we knew it was loaded up with something and, you
24	know, we assumed it was condensate and just checked to see
25	how much fluid was in the wellbore.

1	Q. And artificial lift can only be utilized with one
2	string of tubing; you wouldn't be able to still keep them
3	separated; is that correct?
4	A. That's correct. And I think the other thing we
5	could do is attempt to put these on compression. That
6	might help us lower the surface pressure and get the wells
7	to flow a little better, so that might be beneficial as
8	well.
9	Q. Do you know if the Dakota zone is fluid-sensitive
10	in case a backflow occurs or the well is shut in for some
11	time
12	A. Well, I
13	Q the condensate would do any harm to the
14	Dakota?
15	A. I don't believe the condensate would do any harm
16	to the Dakota.
17	If we had a large volume of water, that might
18	cause some concern. But the condensate should be
19	relatively compatible.
20	Q. Is there any water production from the Gallup?
21	A. Not that I'm aware of.
22	EXAMINER STOGNER: Any other questions of the
23	witness?
24	MR. CARR: We have no further questions of Mr.
25	Hawkins.

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1	EXAMINER STOGNER: He may be excused.
2	MR. CARR: We have nothing further in this case,
3	Mr. Stogner.
4	Does anybody else have anything further in Case
5	11,096?
6	This case will be taken under advisement.
7	(Thereupon, these proceedings were concluded at
8	9:28 a.m.)
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## CERTIFICATE OF REPORTER

STATE OF NEW MEXICO ) ss. COUNTY OF SANTA FE )

I, Steven T. Brenner, Certified Court Reporter and Notary Public, HEREBY CERTIFY that the foregoing transcript of proceedings before the Oil Conservation Division was reported by me; that I transcribed my notes; and that the foregoing is a true and accurate record of the proceedings.

I FURTHER CERTIFY that I am not a relative or employee of any of the parties or attorneys involved in this matter and that I have no personal interest in the final disposition of this matter.

WITNESS MY HAND AND SEAL October 29th, 1994.

STEVEN T. BRENNER CCR No. 7

My commission expires: October 14, 1998

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 11096. heard by meron 27 Ocholic 19 94 . , Examiner Oil Conservation Division

STEVEN T. BRENNER, CCR (505) 989-9317

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