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:

APPLICATION OF HARVEY E. YATES COMPANY FOR EXPANSION OF A UNIT AREA, OTERO COUNTY, NEW MEXICO CASE NO. 14,000

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REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: WILLIAM V. JONES, Jr., Technical Examiner DAVID K. BROOKS, Jr., Legal Examiner

September 20th, 2007

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, WILLIAM V. JONES, Jr., Technical Examiner, DAVID K. BROOKS, Jr., Legal Examiner, on Thursday, September 20th, 2007, at the New Mexico Energy, Minerals and Natural Resources Department, 1220 South Saint Francis Drive, Room 102, Santa Fe, New Mexico, Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

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

<u>OCD Exhibit C</u> De Novo Case 14000 Application of HEYCO

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APPEARANCES

APPLICANT'S WITNESSES:

<u>VERNON D. DYER</u> (Landman) Direct Examination by Mr. Bruce Examination by Examiner Jones Examination by Examiner Brooks <u>GORDON K. YAHNEY</u> (Geologist) Examination by Examiner Jones

REPORTER'S CERTIFICATE

EXHIBITS

Applicant's	Identified	Admitted
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FOR THE DIVISION:

DAVID K. BROOKS, JR. Assistant General Counsel Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

. .:

FOR THE APPLICANT:

JAMES G. BRUCE Attorney at Law P.O. Box 1056 Santa Fe, New Mexico 87504

FOR CHESAPEAKE OPERATING, INC., AND XTO ENERGY, INC.:

KELLAHIN & KELLAHIN 117 N. Guadalupe P.O. Box 2265 Santa Fe, New Mexico 87504-2265 By: W. THOMAS KELLAHIN

WHEREUPON, the following proceedings were had at
2:00 p.m.:
EXAMINER JONES: And let's call Case 14,000,
Application of Harvey E. Yates Company for expansion of a
unit area, Otero County, New Mexico.
Call for appearances.
MR. BRUCE: Mr. Examiner, Jim Bruce of Santa Fe,
representing the Applicant. I have one witness. And if
the record could reflect, the witness is Vernon Dyer who
was previously sworn and qualified.
EXAMINER JONES: Okay.
VERNON D. DYER,
the witness herein, having been previously duly sworn upon
his oath, was examined and testified as follows:
DIRECT EXAMINATION
BY MR. BRUCE:
Q. Mr. Dyer, what the heck are we here for today?
A. We have received approval from the BLM and the
State Land Office to expand the existing unit, Bennett
Ranch Unit, to be more conformed to the type of production
we find.
Q. Okay. And how long ago was this unit originally
formed?
A. In 1997.

	1.00 March 1
1	Q. And did the order that approved the unit, which
2	was R-10,527, require that if the unit was expanded, that
3	the operator come back in and seek Division approval?
4	A. That is correct.
5	Q. Okay. What does Exhibit 1 reflect?
6	A. That is the a map of the unit, and it shows
. 7	the old unit and the new expanded part, the expanded part
8	being more of the square going from Section 1 to Section 3
9	or Section 27, I'm sorry and then across, and then
10	down across the bottom of the State line, and going up the
11	side, Section 31, 30, 18, the over again to the corner
12	southeast corner of 12, and then back up to the top.
13	Q. Okay. That is the Texas state line down at the
14	very bottom?
15	A. Yes, that is the Texas state line at the very
16	bottom.
17	Q. Does Exhibit 2 reflect the original acreage in
18	the unit?
19	A. Yes, it does.
20	Q. And does Exhibit 3 reflect the what would be
21	the expanded the total acreage in the expanded unit?
22	A. Yes, that would be it.
23	Q. Is all of the land in the unit as expanded
24	federal or state land?
25	A. Yes, it is.

and a survey of

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

An title
Q. And you did obtain approval, preliminary approval
from both the Commissioner of Public Lands and the Bureau
of Land Management regarding this expansion?
A. Preliminary from the State Lands as subject to
the OCD hearing, and then from the BLM it's just straight
approval.
Q. Okay, that's final approval?
A. That's final approval, yes.
Q. But the BLM does also require you to come up and
get approval from the OCD?
A. Yes, they request that we come up and get to
the OCD.
Q. Okay. And the State and BLM approvals are
Exhibits 4 and 5, are they not?
A. That is correct.
Q. The reason for the expansion, could you summarize
for the Examiner?
A. Yes, when we originally put this together in '97
and we were basing it on oil production on 40-acre spacing,
the two existing wells we have were both gas wells on 640
spacing. So we have increased it to allow us to have our
640 spacing on all of the wells that will be drilled.
Q. Okay, so this expansion would allow you to
dedicate an entire section to each well that may be drilled
in the unit?

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1	A. That is correct.
2	Q. And that is the basic reason for the expanded
3	unit?
4	A. Yes, that is.
5	Q. And without going into too much detail has this
6	been a long, hard road for you getting wells drilled in
7	this unit?
8	A. Yes. And I can explain if you want to, but it
9	would be it's so numerous I don't know where to start.
10	Q. And was notice given to both the Commissioner of
11	Public Lands and the Bureau of Land Management regarding
12	this Application?
13	A. Yes, it was.
14	Q. And is that reflected in Exhibit 6?
15	A. Yes, it is.
16	Q. In your opinion, is the granting of this
17	Application in the interests of conservation and the
18	prevention of waste?
19	A. Yes, I do believe that.
2.0	Q. And were Exhibits 1 through 6 either prepared by
21	you or under your direction or compiled from company
22	business records?
23	A. That is correct.
24	MR. BRUCE: Mr. Examiner, I'd move the admission
25	of Exhibits 1 through 6.
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1	EXAMINER JONES: Exhibits 1 through 6 will be
2	admitted.
3	EXAMINATION
4	BY EXAMINER JONES:
5	Q. Mr. Dwyer, these or, I'm sorry, Dyer. Is this
6	a statutory unit or a regulatory or an exploration unit?
7	A. It is an exploration unit.
8	Q. And is it oil or is it gas?
9	A. It is gas.
10	Q. Gas.
11	A. The existing wells we have are gas wells, yes.
12	Q. Just repeating what you said earlier, I'm sorry.
13	A. Oh, that's okay. I'm at the age I repeat a lot
14	of times.
15	Q. Are you familiar with that order, that $R-10,537$?
16	It said Was there findings in there for why that OCD
17	approval should be required for expanding the unit?
18	A. I don't know of any reason why they did it in the
19	deal. I'm assuming that it's so they can keep track of
20	what's going on. I mean, they're the controlling entity
21	for the producing well, so
22	Q. Okay. And can you tell me a little bit about the
23	drilling out there so far? How many wells and what what
24	have you found and
25	A. We've actually drilled three. The first one we

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1	lost the hole to immediately, and then skidded the well
2	and drilled the 1Y. So we have two wells out there, one
3	producing from the Morrow from the Mississippian
4	Mississippian, and one from the Canyon.
5	The drilling of the wells out there has been very
6	difficult due to government interference, for lack of a
7	better word. State, federal and county.
8	Q. That first well, it was skidded How deep did
9	you get before it was skidded?
10	A. We drilled to the he's the geologist, he can
11	tell you all that. But we drilled to the basement.
12	MR. YAHNEY: Would you like me to answer here?
13	EXAMINER JONES: You know what, I should
14	MR. YAHNEY: I'm a little more familiar with some
15	of the geology than Vernon.
16	EXAMINER JONES: Yeah, let me concentrate on
17	questions more related to land first, and then
18	MR. YAHNEY: Okay.
19	EXAMINER JONES: maybe we can get Mr.
20	Yahney
21	THE WITNESS: The difficulty I do know some of
22	the difficulty out there. One of the difficulties is, it's
23	way underpressured reservoirs, and if you drill with
24	anything unless you drill with air, you're going to mask
25	everything and you'll never find it, and that's what's

and a second of the standard. It

 drilling A. Well, the mud covers it up, so it's pressures It's underpressured reservoirs. And Gordon can explain that much better than I can. Q. Now, does this Let me get this straight. The BLM requests OCD approval, but the State Land Office requires it? MR. BRUCE: That's under State Land Office regulation, they do THE WITNESS: Yes. MR. BRUCE: require It's not in the unit agreement, it's well, it may be in the unit agreement, but under State Land Office regulations they do require that any creation or expansion of any type of unit have of approval. 		
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19 answer the stips for the BLM on drilling. What	17	approval.
	18	Q. (By Examiner Jones) Okay, and you could probably
A. On the first two wells there was stips.	19	inswer the stips for the BLM on drilling. What
	20	A. On the first two wells there was stips.
21 Q. Pardon?	21	Q. Pardon?
A. On the first two wells there was no stips.	22	A. On the first two wells there was no stips.
23 Q. Okay, there wasn't any stipulations on	23	Q. Okay, there wasn't any stipulations on
24 A. No.	24	A. No.
25 Q on the drilling?	25	Q on the drilling?

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ess of trying to change them,
, they're haven't
, we haven't got the new APD
he courts and through the
it against it, so we're
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the unit requires probably so
in a certain amount of time
if you can't get those
the unit contracts down to
eas that are in effect at that
n state land State Land
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requirements?
any on state land yet, so
n't seen any extra.

We've really been delayed. The first well was Α. 1 discovered in '97, so we're still trying to get everything 2 done. 3 What about right-of-way for getting gas out of 4 Q. there? 5 Α. The -- When we discovered the well, the resource 6 7 management plan for this area did not have any provisions for the producing of oil or gas or the transporting of oil 8 and gas. So after we discovered the well, they immediately 9 10 had to shut everything down and go into a resource management plan, which under BLM law, regulations, they 11 have to get it where they can -- get it where we can 12 actually produce the gas, and then transport it. 13 So up until the resource management plan was 14 15 issued to the public in -- a few years ago, a year ago, two thousand- -- I don't have my timeline with me, I apologize. 16 2005, basically. 17 MR. YAHNEY: THE WITNESS: 2005, January of 2005. There was 18 no -- we could not transport or produce the gas that was 19 20 out there. The minute that was issued, the new RMP was 21 issued of record, record of decision, the Governor of New 22 Mexico had a 60-day or a 30-day resource -- a comment 23 period. He made his comments, it was taken in. 24 25 The BLM rejected all the comments and said it

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1	wasn't right, and they went ahead and reissued it again.
2	And at that time the Attorney General, under the Governor's
3	instructions from the New Mexico, filed a suit against
4	the existing RMP that was approved by the judge, and it has
5	been set aside, and now we're still Judge Black here is
6	still handling the court case, and they're still in
7	negotiations between the Attorney General, the
8	environmental groups and the BLM on trying to get the case
9	settled.
10	And until something is done, we're sitting out
11	there with two perfectly good natural gas wells that cannot
12	be produced.
13	Q. (By Examiner Jones) Okay. And
14	A. And the people of the United States is what's
15	losing here. It's not us. Because the gas is not coming
16	on, and the revenue is not being paid to the State or to
17	the federal government.
18	Q. Was there any lease expirations that was
19	prompting the adjustment of this unit at this time?
20	A. No, the lease expiration, we've already the
21	all the leases that was out there has already been expired
22	on us, because we couldn't do anything with them. And we
23	have negotiated with the BLM to put a lot of our
24	obligations in suspense while the lawsuit is going on
25	because we have no control over it.

- S. M.

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

1	So we've got all the leases that's in that
2	area now is in suspense, except for two or except for
3	one leased on three sections, which we bought at the July,
4	2005, land sale for the BLM, and it has not been issued yet
5	because it has also been put up into the lawsuit filed by
6	the Attorney General.
. 7	Q. Okay.
8	A. And those leases have not been issued, so there's
. 9	no time running yet.
10	Q. Okay. That Canyon, was it is that gas too?
11	A. Yes.
12	Q. Basically Pennsylvanian, Mississippian gas.
13	Okay.
14	A. Dry gas too.
15	EXAMINER JONES: Pretty dry gas. Okay, I think
16	that's all the questions for your land witness.
17	MR. BRUCE: Do you want me to put Mr. Yahney
18	EXAMINER JONES: If you don't mind.
19	EXAMINER BROOKS: Well, I'd like to ask a couple
20	questions.
21	EXAMINER JONES: Okay, go ahead. Sorry, Mr.
22	Brooks.
23	EXAMINATION
24	BY EXAMINER BROOKS:
25	Q. This is it looks like the acreage totals add
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1	up, this is all federal or state land?
2	A. Yes, sir.
3	Q. No private lands?
4	A. Not at all.
5	Q. And all the tracts within the expanded unit will
6	be committed to the unit?
7	A. Yes, sir.
8	Q. Is Heyco the only working interest owner
9	involved?
10	A. No, there's we have two partners.
11	Q. Okay, and they've joined in the amendment to the
12	unit agreement
13	A. Yes, they have.
14	Q to expand?
15	A. Yes.
16	Q. Okay, so it's an entirely voluntary agreement at
17	this point?
18	A. Yes. Yes, it is.
19	EXAMINER BROOKS: Let's see, are there any other
20	questions I need to ask?
21	MR. BRUCE: Mr. Brooks, if you look at Exhibit 5,
22	the last several pages are the revised Exhibit B to the
23	unit agreement
24	EXAMINER BROOKS: Okay
25	MR. BRUCE: and it would set forth the
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and the second second

1	EXAMINER BROOKS: you did not put the unit
2	agreement itself in the record?
3	MR. BRUCE: I don't think the unit agreement
4	would change.
5	THE WITNESS: No, the unit agreement didn't
6	change.
7	Q. (By Examiner Brooks) Well, the unit agreement is
8	a federal form, as I understand it.
9	A. Yes, it's a fill-in-the-blank form.
10	EXAMINER BROOKS: The form requires approval by
11	if I recall rightly, it requires approval by the
12	appropriate state authority. And from what you were
13	telling us, it's the requirement for OCD approval
14	originally rises from the State Land Office Rules?
15	MR. BRUCE: That's correct.
16	EXAMINER BROOKS: Because just as with state
17	units, they won't give final approval until they receive
18	the OCD approval.
19	MR. BRUCE: That is correct.
20	EXAMINER BROOKS: This question I guess is for
21	you, Mr. Bruce. What provision of the Oil and Gas Act
22	confers the authority to approve these units on the OCD? $$ I
23	know we've been doing it for years.
24	MR. BRUCE: Yeah, and Mr. Examiner, I don't know
25	if I can point to anything other than general provision

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1	about prevention of waste and just the general
2	conservation provisions. I've asked that myself, and if
3	this was an entirely federal unit we wouldn't be here.
4	EXAMINER BROOKS: Right, because it wouldn't
5	require state approval.
6	MR. BRUCE: And so all I can point to is the
7	State Land Office regulations.
. 8	EXAMINER BROOKS: State Land Office. Okay, thank
9	you. That's all I have.
10	MR. BRUCE: Mr. Yahney back up to the stand, and
11	again if the record could reflect that he was previously
12	sworn and qualified.
13	EXAMINER JONES: Do you want to first
14	MR. BRUCE: I'll just let you go.
15	EXAMINER JONES: Okay, that's what I was told
16	earlier.
17	GORDON K. YAHNEY,
18	the witness herein, having been previously duly sworn upon
19	his oath, was examined and testified as follows:
20	EXAMINATION
21	BY EXAMINER JONES:
22	Q. Okay, the Can you talk a little bit about the
23	first three wells and what they hit and what they didn't
24	hit and what you were going for originally and
25	A. The original unit was set up, we set up an
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1	exploratory unit to test the Fusselman formation. We
2	thought that that would be the deepest potential reservoir,
3	and based on some geochem and some other wells, mainly in
4	Texas, we thought that that reservoir would probably
5	contain oil. So we set up an outline with the BLM based on
6	the geology that was outlined with 40-acre proration units.
7	Okay.
8	In drilling, eventually, you know, we discovered
9	gas. Okay? The drilling sequence was, in mid-1997 we went
10	out there to the Bennett Ranch unit and started a well, you
11	know, targeting the Fusselman, and the Fusselman is roughly
12	at about 5500 to 6000 feet, we thought, in that initial
13	well. The Bennett Ranch Unit Number 1Y was drilled to a
14	depth of about 2400 feet before we lost the hole.
15	MR. DYER: The other 1. You said the 1Y.
16	THE WITNESS: The 1 was drilled to 2400 feet.
17	The 1Y is the replacement.
18	The situation there is, we had shows of
19	hydrocarbons at very shallow depths. We also drilled into
20	a situation where we had gas and water in close proximity,
21	and we had a situation where we got a very sensitive shale
22	wet and it basically came in on us, and we were unable to
23	drill any further and got stuck.
24	Q. (By Examiner Jones) So you had sands and shales,
25	sequence there?

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1	A. The sequence there at Bennett Ranch, the surface
2	is Yeso, and it's very thin. We drilled into a very thin
3	Abo section and at about 600 feet or so we went into the
4	Wolfcamp. The Wolfcamp, right where that is, that is about
5	1300 to 1500 feet thick.
6	Q. Was the
7	A. And that's all carbonate for the most part
8	Q. Oh.
9	A until you get to the bottom of it, and at the
10	bottom of the Wolfcamp is an interval called the Powwow.
. 11	The Powwow is a conglomerate and shale sequence that is the
12	you know, it's the remnants of a large regional
13	unconformity. And it was in this sequence of red and green
14	shales and conglomerates that make up the sequence of the
15	Powwow and the top of the Penn where we had gas and we had
16	water, and we had the shale problems.
17	Q. So it was below the Wolfcamp that you had
18	A. Well, the Powwow is considered to be a Wolfcamp-
19	age lower member of the Wolfcamp. It's a lower member of
20	the Wolfcamp.
21	Q. Okay. But when you went back into the
22	Pennsylvanian, that's when you started hitting
23	A. Right, we got to a point where we got just a
24	little bit into the Pennsylvanian and got stuck, basically.
25	Q. How was the
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And we were drilling -- You know, we drilled this 1 Α. well like we drilled the second and the third one, with 2 3 air. We got to a point where we had a lot of water come in And it was a matter of -- we -- you know, we spent 4 on us. too much time, because of mechanical problems, in one place 5 and the shale swelled on us and came in on us. 6 7 ο. Okay. We've since learned a little bit from our mistake 8 Α. 9 there in that we drilled our second well just slightly 10 different in terms of the -- what we're using to try to control the shales. 11 Okay. So those shales wouldn't have been a 12 Q. problem if they hadn't been hit by water, would they? 1.314 Α. You can't keep the water off of them, really, but you can control that by using, you know, a high 15 concentration of KCl. We ended up misdrilling the second 16 and third well through that particular interval, you know, 17 and we didn't have near the problems. Of course, we didn't 18 have mechanical problems in the interval where the shale 19 was either. We figured that we could leave that particular 20 shale sequence open for about three days max, before it was 21 22 going to give us problems. 23 And that Canyon is right below where you have Q. trouble? 24 25 Α. The -- You have to realize that there's a big

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1	unconformity out there. The Canyon has a lot of relief on
2	it. At the southern end of the structure it's within
3	oh, it's within a thousand feet of the unconformity. If
4	you're offstructure, there's expansion in that section,
5	that Penn shale section, and it picks that section
6	expands to by probably up to 1500 or more feet.
7	Q. And how far deep is the Mississippian, then,
8	below the Canyon?
9	A. Back to the you know, kind of the drilling
10	scenario, once we were stuck there and had junked the well,
11	we skidded that well over about 50 to 100 feet and drilled
12	a replacement well. That well we drilled that well down
13	to basement. Basement was at a little more than 7000 feet.
14	We looked at the Fusselman and the Montoya and Ellenburger
15	equivalents as well.
16	And in the drilling of that well we had lots of
17	gas up in the Penn section, and we had a big gas increase
18	in the Mississippian. Big You know, we're drilling with
19	air, big flare. I don't know whether you've seen the video
20	from that. We did show that to some people. Lots of
21	excitement.
22	Q. Did you change anything else on the first
23	between the first and the second well, as far as your
24	casing design, what you tried to case
25	A. Well, we tried to run casing in the first well.

1	That was part of the problem. We got this section wet, and
2	we were trying to run casing to solve that problem and got
3	it stuck.
4	Q. Okay.
5	A. We ran a deeper string of casing in the
6	subsequent replacement well
7	Q. Okay.
8	A and we were able to get through it, you know,
9	the problem area, quicker and get quite a ways below it and
10	run a string up the casing.
11	Q. Were you able to cement the casing, the second
12	casing?
13	A. We cemented this second the intermediate
14	casing in that second well.
15	Q. Were you able to get it to the surface?
16	A. I would have to look at a schematic to I don't
17	remember the exact situation there. I would assume that
18	that was kind of what we wanted to do, but I don't know
19	that that's necessarily what happened there.
20	Q. Well, I understand in wildcat areas you have to
21	kind of play you know, feel your way. But as far as the
22	adjustments that you made to protect the fresh water, can
23	you tell me what you did to do that? I say fresh water. I
24	mean the waters you encountered in that
25	A. The waters that we encountered we had a
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1	protection string, you know, just a surface string, and
2	then we were running a string through the section to get
3	below the base of the Wolfcamp into the Penn section.
4	Okay. The water that we were seeing, we were seeing water
5	at the base of the Wolfcamp in that Powwow to the lower
6	part of the Wolfcamp section. And that was, you know, what
7	we were trying to shut off and get that Powwow behind pipe.
8	Q. Were you able to do that in the second and third
9	wells?
10	A. Yes, we were.
11	Q. So you were able to adjust your drilling program
12	and get casing down?
13	A. The third well drilled a little bit different.
14	It was much higher on the structure, on the unconformity
15	structure, and we did not have the water problems that we
16	had lower in the section, lower in the first two wells.
17	The 25-1 is somewhere between depending on the horizon
18	that you're mapping, between 500 and 1000 feet higher than
19	the initial 1Y.
20	Q. And you moved up because you saw gas and you
21	wanted to move updip?
22	A. Yes, we had the opportunity to move updip,
23	further updip on the structure, and test that.
24	Q. You gave up on the oil?
25	A. We drilled that third well down to the Fusselman

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1	again and had another look at it
2	Q. But not
3	A and it was not productive. In fact, we had
4	better shows, indications of hydrocarbons, in the first
5	well.
6	Q. Did you drill the first one with air and then
7	switch over to kind of a saltier water mud water system
8	on the second ones, or did you drill them all with air?
· 9	A. We drilled them all with air to a certain point.
10	You know, the first well we drilled with air
11	until we had problems with too much water, that we couldn't
12	lift it.
13	Drilled the second well with air to a point where
14	we were in the lower Paleozoic section, and we switched
15	over to a fluid system.
16	And we did that, or tried to do that again with
17	the third well.
18	Q. So
19	A. We were using a very cut brine I wouldn't call
20	it a brine, I'd call it a you know, we were using
21	drilling fluids that we thought were fairly close to the
22	same chloride concentrations of the waters that we were
23	seeing when we were drilling, and that's kind of a fairly
24.	wide range, but it's not very salty.
25	Q. Where did you get your water for drilling?

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1	A. We got our water for drilling from a couple
2	places, but I would one of them that comes to mind, we
3	were buying water from Bebo Lee at the Hat Ranch.
4	Q. Which is close by somewhere?
5	A. Yeah, it's about, I don't know, eight, ten miles
6	to the north of us.
7	Q. Wasn't Okay, north. So this goes all the way
8	down to the Texas state line, 11,637 acres.
9	Well, in your can you in your opinion, is
10	this expansion of this unit and conversion over to a gas
11	target as far as the geologic concept that's involved,
12	it was obviously different than it was for the oil, but
13	what did you have to show that to the BLM and the State
14	Land Office, the concept that
15	A. Well
16	Q why you wanted to retain these leases
17	A we
18	Q in suspense, at least, in this
19	A. Well, I don't know, I lost that. But we went and
20	demonstrated to the BLM that the two producing wells, the
21	one in the Mississippian and it's producing from a of
22	a fractured carbonate and an igneous sill in combination
23	and the Canyon, which is a sandstone interval, both of
24	those reservoirs are high-perm, low pressure, with lots of
25	deliverability but low pressure, lots of volume

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1	deliverability but low pressure, and they would drain a
2	pretty fair extent. So far that some of the one of the
3	production tests that we ran on the initial 1Y well, we
4	could not see any kind of barriers.
5	Now if you want details and that kind of stuff,
6	you need to talk to an engineer, which I'm not.
.7	Q. That's all right. As far as the structure goes,
8	though, what can you say about the structure within this
9	unit? Does the unit contain a geologic structure?
10	A. The unit contains a geologic structure that we
11	think, based on the deeper horizon, that being the deeper
12	pay zone, Mississippian, justifies the extent or the
13	expansion of the unit.
14	Q. As defined by
15	A. Again, that's defined by seismic and the closure
16	that we see on the seismic in terms of the regional
17	seismic. You're talking about 2-D lines that cover the
18	area. It's not really exactly tied down by any means at
19	this point.
20	EXAMINER BROOKS: Okay, I don't have any more
21	questions.
22	EXAMINER BROOKS: Nor do I.
23	EXAMINER JONES: Okay, thank you.
24	MR. BRUCE: That's all I have on this, Mr.
25	Examiner. I do remember in looking at one of the plats

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1	that was presented by the geologist in the first go-around
2	in this, and I had never seen such a large-scale plat with
3	so few wells on it, but
. 4	EXAMINER JONES: Okay, with that we'll take Case
5	14,000 under advisement.
6	(Thereupon, these proceedings were concluded at
7	2:42 p.m.)
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15	i do heraby carlify that the foregoing is
16	the Examiner transformer former and the second
17	heard by me on
	Oil Conservation Division
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