STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 11,242

APPLICATION OF CONOCO, INC.

ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: DAVID R. CATANACH, Hearing Examiner

April 6th, 1995

Santa Fe, New Mexico

This matter came on for hearing before the Oil Conservation Division on Thursday, April 6th, 1995, at the New Mexico Energy, Minerals and Natural Resources Department, Porter Hall, 2040 South Pacheco, Santa Fe, New Mexico, before Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

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INDEX April 6th, 1995 Examiner Hearing CASE NO. 11,242 PAGE **APPEARANCES** 3 **APPLICANT'S WITNESSES:** BILL HARDIE Direct Examination by Mr. Kellahin 5 Examination by Examiner Catanach 17 ROBERT BEAMER Direct Examination by Mr. Kellahin 21 Examination by Examiner Catanach 25 **REPORTER'S CERTIFICATE** 28 * * * EXHIBITS Identified Admitted Exhibit 1 5 17 Exhibit 2 8 17 Exhibit 3 9 17, 25 Exhibit 4 12 17, 25 Exhibit 5 14 17, 25 Exhibit 6 22 25 Exhibit 7 24 25 Exhibit 8 25 25 Exhibit 9 25 25 * * *

APPEARANCES

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:

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

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1	WHEREUPON, the following proceedings were had at
2	1:08 p.m.:
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6	EXAMINER CATANACH: Okay, call the hearing back
7	to order at this time, and I'll call Case 11,242, which is
8	the Application of Conoco, Inc., for an unorthodox gas well
9	location, Eddy County, New Mexico.
10	Are there appearances in this case?
11	MR. KELLAHIN: Mr. Examiner, I'm Tom Kellahin of
12	the Santa Fe law firm of Kellahin and Kellahin, appearing
13	on behalf of the Applicant, and I have two witnesses to be
14	sworn.
15	EXAMINER CATANACH: Any additional appearances?
16	Will the witnesses please stand to be sworn in?
17	(Thereupon, the witnesses were sworn.)
18	MR. KELLAHIN: Call as our first witness, Bill
19	Hardie.
20	Mr. Examiner, we would request that Mr. Hardie's
21	prior testimony from the previous case be considered by you
22	whereby he has been qualified as an expert witness in the
23	field of petroleum geology and that he continues under oath
24	in this case.
25	EXAMINER CATANACH: Okay.

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1	<u>BILL HARDIE</u> ,
2	the witness herein, after having been first duly sworn upon
3	his oath, was examined and testified as follows:
4	DIRECT EXAMINATION
5	BY MR. KELLAHIN:
6	Q. Mr. Hardie, let me have you turn, sir, to what
7	you've marked as Exhibit 1, and if you'll identify that
8	display for us.
9	A. Exhibit 1 is a base map of the North Dagger Draw
10	area showing on it in solid yellow Conoco-operated acreage,
11	in cross-hatched yellow acreage that Conoco has a working
12	interest in but does not operate.
13	Also shown is the proposed unorthodox Morrow
14	location, the Savannah State Number 1, which is located 660
15	from the north line, 660 from the east line, Section 32,
16	Township 19 South, Range 25 East, with a bottomhole
17	location at the Morrow location, at the Morrow formation,
18	to be at a footage of 1100 feet from the north and the east
19	line.
20	Q. How do we identify on this display those wells
21	that have been either Morrow penetrations or Morrow-
22	producing gas wells?
23	A. On this display most of what is shown as either a
24	gas well or a plugged gas well at one time produced from
25	the Morrow formation. Most of the wells on this map are

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currently producing from the Upper Pennsylvanian, the 1 2 Cisco/Canyon formation, and they're shown as the solid black circles, producing oil wells. 3 The red circles shown on there are the more 4 5 recently drilled Cisco/Canyon locations, or in some cases 6 some of those have been recompleted from the Morrow, and 7 you can see that it's an overlay of both a gas well and a 8 red circle, and that indicates some of the more recent 9 development in the Upper Penn formation. 10 Q. Will you subsequently have a display that 11 specifically identifies for the Examiner those Morrow 12 locations that you've utilized as part of your geologic 13 interpretation of the Morrow potential? 14 Α. Yes. 15 If this well is successful in the Morrow, has the 0. Division identified the name by which we will know this 16 17 production? 18 Α. This will be associated with Cemetery-Morrow Pool, and --19 Gas wells in that pool are typically dedicated to 20 ο. 21 an acreage spacing unit of what size, sir? 22 Α. 320 acres. And where will standard well locations be? 23 Q. 24 Standard well locations are shown on this map for Α. 25 the north half of Section 32 with the green-shaded boxes,

and it's fairly standard for a 320-acre proration unit. 1 ο. Is the proposal for the Savannah State 1 well the 2 same type of exploitation strategy that Conoco and others 3 in this area have recently utilized as you described for 4 5 the Examiner in the prior case, whereby you're drilling essentially a Cisco well and take the additional risk at 6 reduced cost to test the Morrow? 7 That is correct. 8 Α. Describe for us the reason, before we talk about 9 0. 10 the details, the basic reason why you're proposing this 11 location in the Cisco. 12 Α. This location, as we see it, is the best Cisco 13 location which exists in the northeast quarter of Section Again, Cisco proration units are 160 acres and 14 32. comprise a quarter section. 15 That is the best available Cisco location, and it 16 17 is also coincidentally -- we believe, has Morrow potential 18 beneath it. But in order to access that potential, we feel that the borehole needs to be deviated beneath the Cisco to 19 a different bottomhole location. 20 We will get to it shortly, but describe generally 21 ο. the type of Morrow deposition you're dealing with, within 22 23 that formation. This is different from the previous case, and 24 Α. 25 more typical of Morrow production in that we're expecting

1	to find a Morrow channel sand, the geometry of which is	
2	very narrow and very linear.	
3	Typically, Morrow channel sands in this area are	
4	less than 1000 feet wide, and they require precise	
5	locations in order to access their reserves.	
6	Many times those channels do not underlie the	
7	orthodox Morrow windows.	
8	Q. Is that going to be true in this case?	
9	A. That is true in this case.	
10	Q. Why don't you go to the alternative option of	
11	taking the proposed bottomhole location in the Morrow and	
12	simply drilling vertically so that you are also at a	
13	similar location in the Cisco?	
14	A. As future exhibits will show, that would,	
15	according to our interpretation, result in missing the	
16	Cisco reservoir.	
17	Q. Let's turn to those displays, then. If you'll	
18	start with Exhibit 2, let's see if there are any surface	
19	topographical limitations for locating your Savannah well	
20	as you propose to locate it at the surface.	
21	A. Exhibit Number 2 is a surface topographic map	
22	copied from the USGS 7-1/2-minute quadrangle series, and it	
23	indicates I've shown on it again the orthodox Morrow-	
24	location windows in green shading, and there are no surface	
25	constraints to our proposed location or to the orthodox	

Morrow windows. 1 2 Q. All right, let's direct your attention to the Cisco geologic maps. If you'll turn to Exhibit 3, identify 3 that display. 4 5 Α. Exhibit 3 is an isopach or thickness map of the 6 Cisco/Canyon dolomite. It's the reservoir interval that we 7 are isopaching. 8 On this I've also shown the outline of the Morrow 9 proration unit and the Morrow orthodox windows, again 10 shaded in green. 11 This map clearly indicates that we are right at 12 the very edge of the Cisco dolomite reservoir and that if 13 we were to attempt to drill a location south of the proposed one, we would risk missing that reservoir 14 15 entirely. 16 We expect to find somewhere in the neighborhood of 50 feet of dolomite in the proposed well. 17 18 If your location for the Cisco is successful, 0. 19 this would be within the existing North Dagger Draw-Upper Pennsylvanian Pool? 20 That is correct. 21 Α. 22 Have the pattern of development and the location Q. 23 of the North Dagger Draw wells been almost always at standard locations? 24 25 Yes, they have, with very, very few exceptions. Α.

With regards to the Morrow, though, the Morrow in 1 Q. this area, for the Cemetery Morrow, have those wells been 2 drilled at standard deep gas well locations? 3 Α. About half of them have, and about half of them 4 5 have not. 6 You can see in Section 32 alone, there were two 7 Morrow dryholes drilled, the Albert State Number 1 and the State K 6096B Number 1. Both penetrated at standard 8 9 locations and were both dry holes. 10 And elsewhere within that Morrow pool, some of 11 those locations are unorthodox. Identify for the Examiner your approximate 12 0. bottomhole target for the Morrow and give him a reference 13 14 point in terms of a vertical dimension. When we look at the top of the Morrow, approximately what vertical depth 15 are we going to be? 16 17 Α. We are hoping to encounter the top of the Morrow, I believe, at about 9200 feet of measured depth. The top 18 of the Cisco is at about 7400 feet, 7500 feet of measured 19 20 depth. Our plan is to drill to the Cisco vertically. 21 Once we've drilled through the bottom of the Cisco 22 reservoir, then we would deviate the wellbore to a 23 bottomhole location that would coincide with the top of the 24 Morrow sand, and that bottomhole location would be 1100 25

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feet from the north and east. 1 There will be subsequent exhibits sponsored by 2 ο. the engineer that will provide the specifics for that 3 4 proposal? Α. That is correct. 5 6 Q. But when we look at the geologic displays, the bottomhole target that you've approximated on your displays 7 8 represents approximately 1100 feet from the north and east boundaries of the spacing unit? 9 10 Α. That is correct. When we look at your geologic display, there's a 11 ο. bit of information that was not presented in the prior 12 There is a line running east and west that is a red 13 case. 14 line with a series of dots? That is a seismic line that was shot by --15 Α. jointly by Nearburg and Conoco, approximately one month 16 17 ago. How is that information of importance to you as a 18 0. geologist in looking at where to put the Savannah State 1 19 20 well? Based on that line, we are able to determine that 21 Α. in fact the Savannah State 1 location was prospective at 22 the Cisco/Canyon formation, as well as we identified a 23 seismic anomaly that we believe may be a Morrow channel 24 sand, that we would otherwise never have known to be there. 25

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1	Q. All right. Let's turn now to Exhibit 4. Again,	
2	is Exhibit 4 your work product?	
3	A. Yes, it is.	
4	Q. And what are we looking at in this exhibit?	
5	A. Exhibit 4 is a structure map on the top of the	
6	Cisco/Canyon dolomite. It reflects both well control from	
7	the various development wells within the field, and it is	
8	also incorporating elevations that were derived from that	
9	seismic line.	
10	And that indicates that at the Savannah State	
11	Number 1 location there is a localized structural nose	
12	which would we expect, based on that, to find the top of	
13	the dolomite reservoir at approximately an elevation of, I	
14	think, minus 4200 feet. We believe that the oil-water	
15	contact is at minus 4300 feet, so that should be well above	
16	the oil-water contact.	
17	Q. Tomorrow the Examiner is going to hear a disputed	
18	case between Conoco and Yates with regards to a Yates-	
19	proposed well called the Aspden Number 2 well.	
20	A. That is correct.	
21	Q. Is that well shown on this display?	
22	A. It is. It's just north of the 320-acre proration	
23	unit we're discussing here. I believe the footage on that	
24	well is 1980 feet from the west line and 330 feet from the	
25	south line, in Section 29.	

1	Q. When we look in Section 32, which is your
2	section, of which the Savannah is part of the spacing unit
3	in the northeast quarter, there's a heavy dark red line.
4	What does that represent?
5	A. I believe you're referring to the deviation of
6	the borehole. The proposed
7	Q. No, sir, not the dashed line.
8	A. Oh. Oh, the heavy red okay.
9	Q. The heavy red line
10	A. Yes, fine.
11	Q this boundary line, I guess. What is that?
12	A. That is would correspond with the zero isopach
13	indicating the southern limit of the dolomite fairway.
14	Q. If you're on the other side of this limit, what
15	happens?
16	A. The reservoir itself would not be dolomitized.
17	It would most likely that interval would be a limestone.
18	Typically, that limestone is tight and nonproductive.
19	Q. Does the Savannah State 1 proposed well location
20	represent the optimum remaining well location in the
21	northeast quarter of 32 for a Cisco attempt?
22	A. Yes, it does. There are potentially two
23	additional or two locations in that quarter section,
24	representing the northeast quarter of Section 32.
25	The other one would be at a position between the

1	Savannah State 1 and the proposed Joyce Federal Number 2.
2	That one, we believe, will be about 20 to 30 feet low to
3	the Savannah State Number 1. We want to drill our best
4	location first.
5	Q. All right, sir, let's turn to the topic of the
6	Morrow. If you'll look at Exhibit 5, identify that
7	display, please.
8	A. Exhibit Number 5 is a combination of two maps.
9	The dark purple contours are a structure map on
10	top of the Morrow sand, or at least a marker that's very
11	near the top of that sand. That indicates that in general
12	the dip is from the northwest to the southeast, moving down
13	toward the southeast.
14	The other part of this map is a color-filled
15	isopach of the Morrow sand, and in it you can see We
16	started at about 30 feet of sand thickness. That seems to
17	be the limit of what can actually produce out here. So I
18	began contouring at 30 feet. And I believe that That
19	goes from 30 feet with the light-yellow color, to thicker
20	sections all the way up to 80 feet in thickness in places
21	where it becomes more red in shade.
22	This indicates that and this is A lot of
23	this information is based on what we found in that seismic
24	line, that there is a rather narrow Morrow channel that
25	trends through the northeastern corner of Section 32.

1 The object with our Savannah State Number 1 is to 2 deviate that Cisco location so that it encounters the 3 Morrow at the thickest part of that channel. And then 4 that's shown by the bottomhole location. We expect 5 something in excess of 40 feet for sand thickness at that bottomhole location. 6 7 An alternative option would be to drill a single ο. 8 Morrow stand-alone well vertically so that it bottomed at this proposed location in the center of the channel as 9 10 you've interpreted it. Why not do that? 11 Α. If we were to do that, then we would most likely 12 miss the Cisco/Canyon reservoir. 13 Q. So you'd have to drill an extra well to access 14 the Cisco/Canyon? 15 Right, and the risk of actually producing from Α. 16 the Morrow is too excessive to do as a standup well. We 17 really need to be testing Morrow in this part of the world as a tail on an existing Cisco development well. 18 If the Division should not approve that 19 0. 20 particular portion of your Application, is there a 21 probability that there are Morrow gas reserves that will not otherwise be recovered? 22 Conoco will not drill a well to the Morrow in 23 Α. 24 this part of the world without having a good development 25 location uphole, certainly not hunting for Morrow channel

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1	sands here. They're very narrow and very risky. Even if
2	you do find them, oftentimes they don't have sufficient
3	porosity and permeability to produce.
4	Q. Is the seismic line that's displayed on this
5	exhibit the same one that we looked at on Exhibit 4?
6	A. Yes, it is.
7	Q. And did it give you reflections on the Morrow
8	potential?
9	A. It did, it gave us reflections. The most notable
10	one was at the base of the Morrow in the Barnett
11	Mississippian Barnett formation.
12	And what we saw on that line was it fit with
13	the geologic model for finding Morrow sands, that is, you
14	look for a low in the Barnett where Morrow sands might tend
15	to accumulate. And there is a low in the Barnett at that
16	location, and reflectors above it that we think may
17	indicate there's a channel sand in that spot.
18	Q. Identify for us, Mr. Hardie, the offsetting
19	operators that would control the Morrow interests towards
20	which this well is encroaching.
21	A. That would be shown best on Exhibit Number 1.
22	Exhibit 1 shows in the red text all of the offset operators
23	that are contiguous to the north half of Section 32.
24	The one most adversely affected would be
25	Mewbourne Oil Company that operates the north half of

Section 33, and they are the ones that we are encroaching 1 on the most. 2 Also affected would be Yates Petroleum, in a 3 diagonal sense. They operate the south half of Section 28. 4 Have you received any opposition from either of 5 ο. 6 those companies concerning your proposed Morrow unorthodox 7 location? Α. We have not. 8 9 Did you advise those companies that your ο. 10 intention is to deviate this wellbore to a bottomhole location that was unorthodox, 1100 feet from the north and 11 east lines of the section? 12 13 Α. Yes, we did. 14 MR. KELLAHIN: That concludes my examination of Mr. Hardie. 15 16 We move the introduction of his Exhibits 1 17 through 5. 18 EXAMINER CATANACH: Exhibits 1 through 5 will be 19 admitted as evidence. 20 EXAMINATION BY EXAMINER CATANACH: 21 22 Q. Mr. Hardie, the -- In Section 28, the State K 23 Number 3, is that a Morrow-producing well? In Section 28 -- I believe you're referring to 24 Α. the well in the south half of Section 28? 25

Correct, right. 1 Q. That is a Morrow producer. I'm not sure that it 2 Α. 3 still produces from the Morrow currently. That was drilled by Getty, and it was completed 4 in a Morrow channel sand, and I believe it cum'd in the 5 neighborhood of about 2 BCF. 6 7 I'm not sure that it still produces. If it does, it's at a very low rate. 8 That well is -- Well, forget it. 9 0. 10 The other area that might be affected, there's a Α. well -- It's kind of difficult to see because it's 11 underneath the seismic line. 12 13 In the north half of Section 33, the State B Number 1 --14 15 Q. Uh-huh. 16 Α. -- is operated by Mewbourne. They attempted a 17 Morrow completion on that, and I think ultimately went up 18 to the Atoka and made a gas well in the Atoka and then, 19 here recently, recompleted from the Atoka into the 20 Cisco/Canyon, and it's a good Cisco/Canyon well. 21 If you were to move this well to a standard Q. 22 location for both Cisco/Canyon and Morrow, you would lose structural position in the Cisco? 23 Α. That's correct. One option that we contemplated 24 was drilling in the -- at a location which would have been 25

1	660 from the north line and 1980 from the west line of
2	Section 32. That would have been
3	Q. From the west line?
4	A. East line, I'm sorry. That would have been
5	standard at both the Cisco and the Morrow.
6	But ultimately our goal is to encounter the
7	greatest thickness of Morrow sand, so we would have wanted
8	to deviate to our proposed bottomhole location anyway.
9	Plus that location is also lower in elevation at
10	the Cisco, and we would prefer to drill our best location
11	first in order to prove up Cisco production in this quarter
12	section.
13	Q. How much structural position would you lose at
14	that
15	A. Referring to Exhibit Number 4, which shows the
16	top of the Cisco/Canyon, across that seismic line we
17	estimate a loss of approximately 20 to 30 feet of
18	elevation. And because we are dealing with such a thin
19	Cisco/Canyon section, that loss in elevation could be
20	significant.
21	We are This is a somewhat risky Cisco location
22	as well, because we are so close to the edge, we think it's
23	paramount that we try our best location first in order to
24	eliminate that risk.
25	Q. You don't really have any wells that penetrate

that thicker Morrow channel section, do you? 1 2 Α. No, we don't. That -- The Morrow prospect itself is based almost entirely on what we saw in the seismic 3 We would have never tried this without the seismic 4 line. 5 line itself. 6 It's kind of a concept that we'd like to try, see 7 if the anomaly we see on the line is a Morrow channel. If it is, it has the potential of us doing this again 8 elsewhere, shooting seismic across the field and perhaps 9 10 deepening existing depleted Cisco wells. 11 0. So this seismic technique has not been used to 12 drill Morrow wells? 13 Not in this part of the world, that I know of. Α. 14 This was a very high-effort 2-D seismic line. I think it 15 reached almost 140-fold at its center, so it has very high 16 resolution, something that you cannot typically get even 17 with a 3-D seismic survey. 18 So that thick Morrow section, that's kind of Q. 19 subject to interpretation at this point? Certainly is. It's a concept that we would like 20 Α. 21 to see proved up because it could result in a lot more gas 22 production. EXAMINER CATANACH: That's all I have of the 23 24 witness, Mr. Kellahin. 25 MR. KELLAHIN: My next witness is Bob Beamer.

1	Mr. Beamer is a petroleum engineer.
2	ROBERT BEAMER,
3	the witness herein, after having been first duly sworn upon
4	his oath, was examined and testified as follows:
5	DIRECT EXAMINATION
6	BY MR. KELLAHIN:
7	Q. Would you please state your name and occupation?
8	A. My name is Bob Beamer. I'm a petroleum engineer
9	with Conoco in Midland, Texas.
10	Q. Mr. Beamer, on prior occasions have you testified
11	before the Division and been qualified as an expert in the
12	field of petroleum engineering?
13	A. Yes.
14	Q. Have you made a study of some of the engineering
15	factors that are involved in Conoco's proposal for the
16	Savannah State Number 1 well?
17	A. Yes.
18	Q. As part of that study, have you examined the
19	proposed deviation aspects of this well so that it could be
20	bottomed in the Morrow formation, hitting the target that
21	Mr. Hardie proposes for this well?
22	A. Yes.
23	MR. KELLAHIN: We tender Mr. Beamer as an expert
24	witness.
25	EXAMINER CATANACH: Mr. Beamer is so qualified.
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1	Q. (By Mr. Kellahin) Let me turn your attention to	
2	Exhibit Number 7.	
3	Mr. Hardie approximated for us some various tops,	
4	and I'm not sure he got the exact approximation correct.	
5	Let's use this display to make	
6	A. Okay, I think it's Exhibit 6.	
7	Q. 6, yes, sir.	
8	A. Okay.	
9	Q. Exhibit 6, which is the DIG vertical section and	
10	the horizontal plan for the well.	
11	A. Yes. This was prepared for our drilling	
12	department at their request by DIG, Incorporated, out of	
13	Midland, Texas, directional drilling service company.	
14	It shows that the proposed well plan Well,	
15	first of all, let me explain what's the sheet of paper.	
16	There are two plans. One is a vertical section	
17	which shows the vertical profile of the wellbore from the	
18	base of the Cisco section. It's located on the left half	
19	of the sheet.	
20	On the right half is a horizontal view of the	
21	wellbore, looking down from the surface.	
22	Q. Let's give the Examiner some reference points.	
23	If you'll look at the vertical section, there's a kickoff	
24	point identified at approximately 7900 feet?	
25	A. That's right. That should be approximately the	
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base of the Canyon section, at which point we would build 1 angle at approximately five degrees per hundred feet until 2 we reach an angle of about 30 degrees from vertical. 3 4 That's expected to occur at a measured depth of about 8490 feet, or a true vertical depth of 8465. 5 At that point, they would plan to maintain that 6 7 angle and drill to the target at 1100 feet from north and The target should be reached at approximately 8 east lines. 9450 feet measured depth. 9 10 Q. Geologically, where will that put us? 11 Α. Top of the Morrow section, which -- and the 12 target also is drawn as a 100-foot-radius target. 13 Q. Your proposal, then, would be to have regulatory 14 authority to stay within a 100-foot-radius target of a 15 point at the top of the Morrow with a dimension of 1100 feet from the north and east lines of the section? 16 17 Α. That's right. 18 All right, then what happens? Q. We would continue drilling the well to the top of 19 Α. the Mississippian section, anticipate it to be encountered 20 at about 9853 feet measured depth. 21 22 I might say that the direction of this well is 23 due southwest from surface. The target, top of the Morrow sand, should be encountered approximately 622 feet from the 24 25 surface location at -- at southwest.

In terms of its complexity, how would you 1 Q. characterize this type of directional drilling? 2 It should be relatively simple. 3 Α. 4 Q. Describe what happens. After the well is drilled, what then happens? 5 Depending on the sample shows in the Morrow sand 6 Α. and open-hole logs, we'll make a decision on whether to run 7 8 casing and complete the well. If it's prospective, we'll run seven-inch casing, 9 cement it, perforate and test the Morrow. 10 If it's not successful, we'll plug back an open 11 hole and run casing through the Cisco and complete it as a 12 13 Cisco/Canyon. Again, the completion process, like the drilling, 14 Q. is a rather conventional application of this type of 15 method? 16 It would be the same techniques that 17 Α. Yes, it is. we used in our Preston Federal Number 6 well. 18 19 And that was a directionally drilled well to ο. 20 accomplish the same type of objectives? 21 Α. Yes, sir. 22 If you'll turn to Exhibit Number 7, identify that Q. 23 for us. Exhibit 7 is the exact same information, provided 24 Α. 25 in a digital format.

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1	Q. And I'll let you sponsor the last two exhibits	
2	then, 8 and 9. What do those represent, Mr. Beamer?	
3	A. Exhibits 8 and 9 are letters signed by Mewbourne	
4	Oil company in which they waive all objections to the	
5	unorthodox location and to the Morrow sand.	
6	MR. KELLAHIN: That concludes my examination of	
7	Mr. Beamer.	
8	We move the introduction of Exhibits 3 through 9.	
9	EXAMINER CATANACH: Exhibits 3 through 9 will be	
10	admitted as evidence.	
11	EXAMINATION	
12	BY EXAMINER CATANACH:	
13	Q. Mr. Beamer, assuming a successful Morrow test,	
14	would the well be just a single completion in the Morrow?	
15	A. Again, that depends on the rate at which we test	
16	the well.	
17	Q. Possibly be a dual completion?	
18	A. Possibly, but probably not likely. Dual	
19	completions could be difficult to manage. But we can't say	
20	for sure until we see the results.	
21	Q. So assuming you've got a good rate in the Morrow,	
22	you would probably produce the Morrow for a period of time?	
23	A. To depletion, yes, sir. There's always the	
24	possibility, then, of drilling a twin well to it to access	
25	the Cisco reserves.	

You've done this type of directional drilling in 1 Q. 2 this pool prior to this? South Dagger Draw, Preston Federal Number 6, 3 Α. approximately two years ago. 4 Assuming no production in the Morrow, is the well 5 ο. just plugged back from TD? 6 7 Yes, sir. Α. Back to the --8 Q. It would be plugged back and open-holed to TD --9 Α. I mean, to the base of the Cisco. Casing would be run, 10 then, and perforated and tested for the Cisco production. 11 12 EXAMINER CATANACH: I have nothing further, Mr. 13 Kellahin. 14 MR. KELLAHIN: All right, sir. We would request 15 that the case be continued to give you an opportunity to 16 have it re-advertised, to remove any technical flaw about 17 the directional drilling aspect. 18 We do have waivers, notice and agreements from 19 the offset as to this bottomhole location being deviated, but I think the Division practice is to also re-advertise 20 21 it. 22 EXAMINER CATANACH: All right. Did we miss the 20th, April 20th? 23 MR. KELLAHIN: Yes, sir. 24 25 EXAMINER CATANACH: Okay.

1 MR. KELLAHIN: So we're looking at the first 2 docket in May. Okay, this case will be 3 EXAMINER CATANACH: 4 continued to the first docket in May. I don't know what 5 the date on that is at this time. 6 MR. KELLAHIN: I can tell you here in just a 7 second. It's May 4th. EXAMINER CATANACH: May 4th. 8 This case will be 9 continued to May 4th, at which time there shouldn't be any 10 additional testimony, right? 11 MR. KELLAHIN: We don't anticipate any, Mr. 12 Examiner. 13 EXAMINER CATANACH: Okay. All right, thank you. 14 (Thereupon, these proceedings were concluded at 15 1:40 p.m.) 16 * * 17 1 do hereby certify that the foregoing is a complete record of the proceedings, in 18 the Example of Acase No. 1/2/2 6 19 45 heares y ind on . 19 , Examiner 20 **Oil Conservation Division** 21 22 23 24 25

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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 April 16th, 1995.

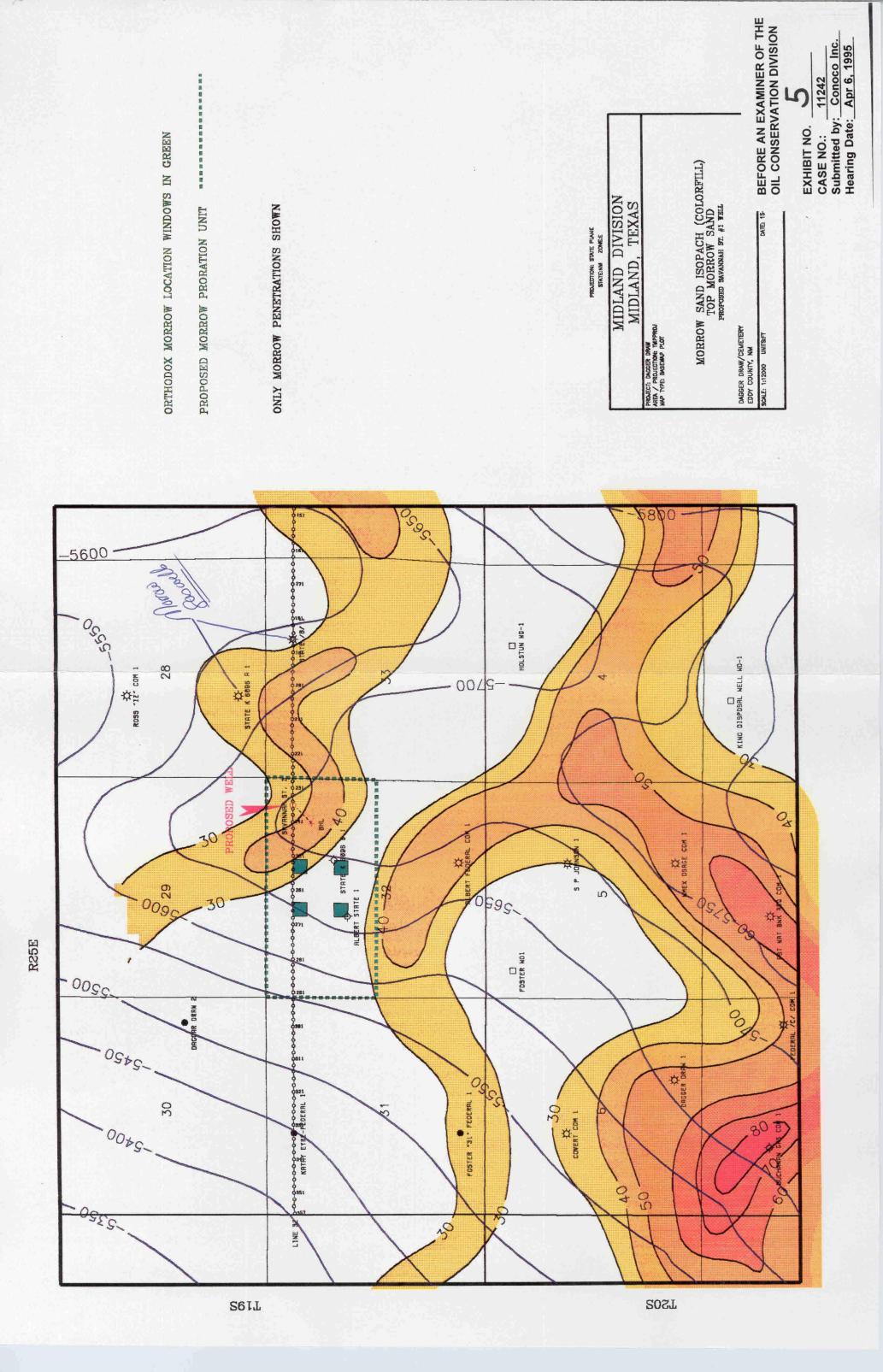
STEVEN T. BRENNER CCR No. 7 au

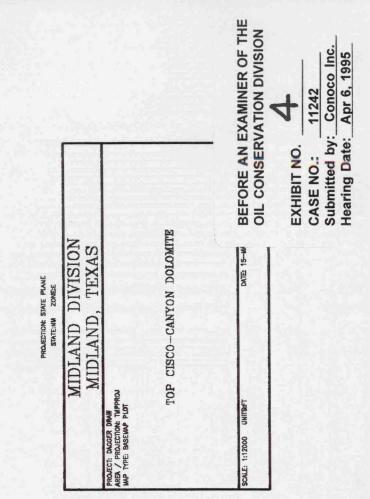
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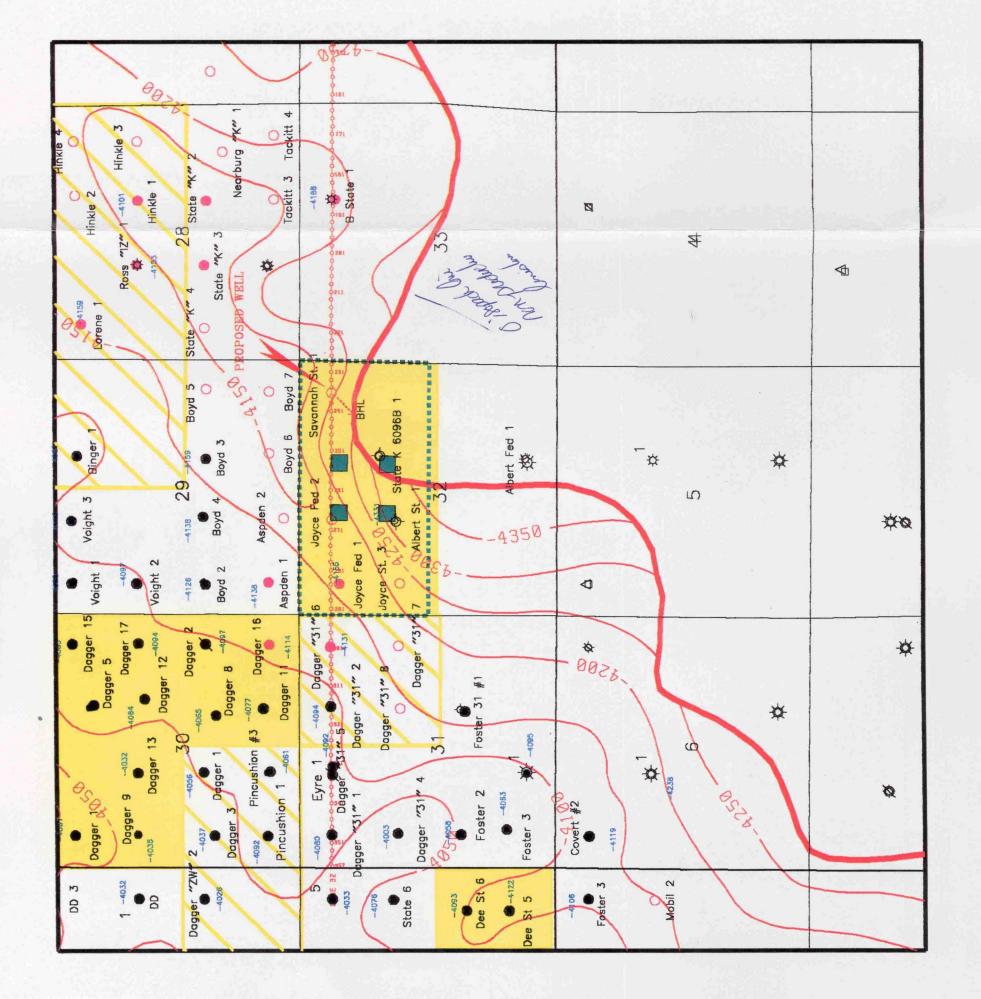
My commission expires: October 14, 1998

CASE 11242 -- CONOCO INC.

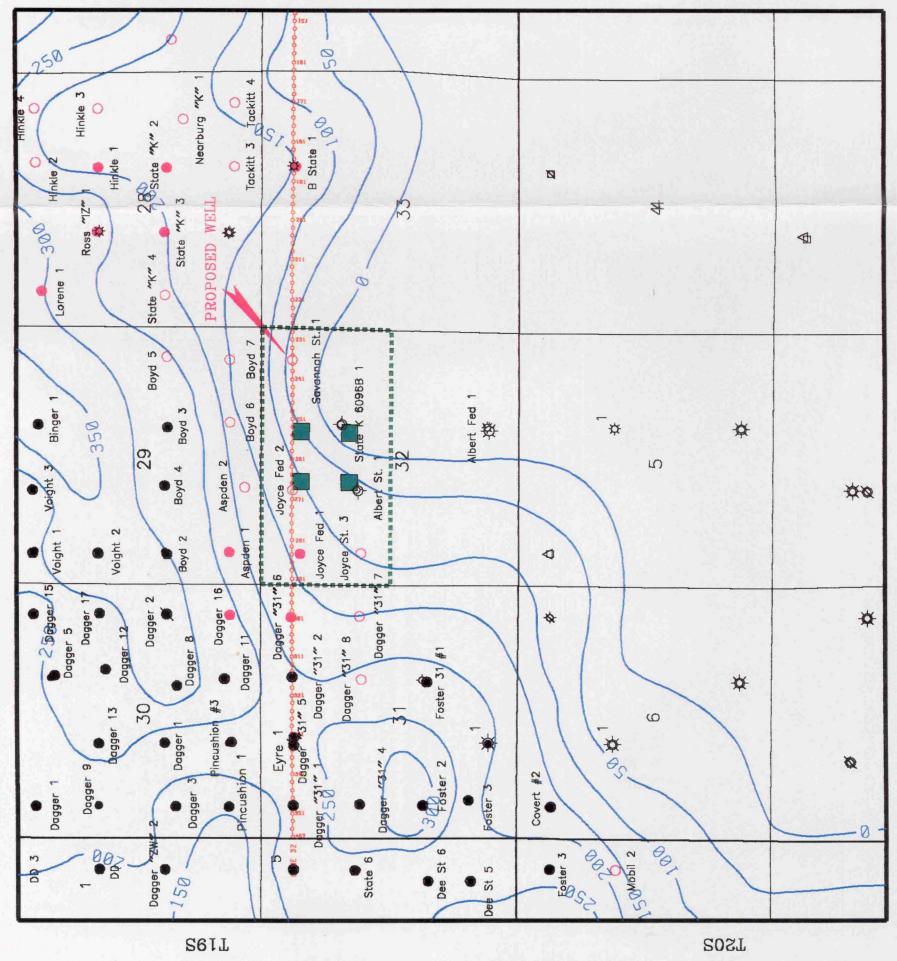
Savannah #1 - Unorthodox Morrow Location



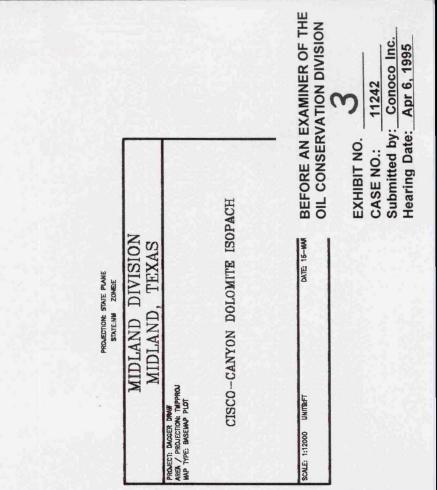


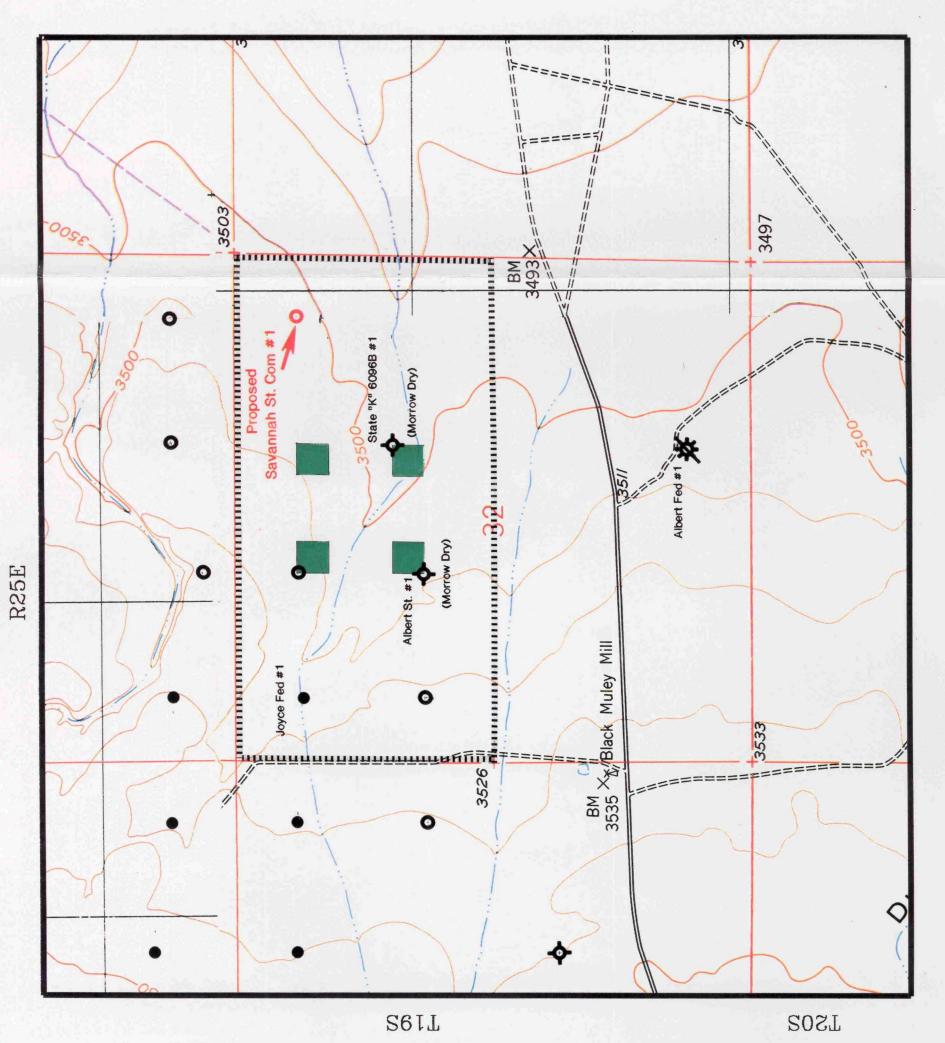






ORTHODOX MORROW LOCATION WINDOWS IN GREEN PROPOSED MORROW PRORATION UNIT ------





Orthodox Morrow Location Windows

Proposed Morrow Proration Unit

CONOCO MIDLAND DIVISION

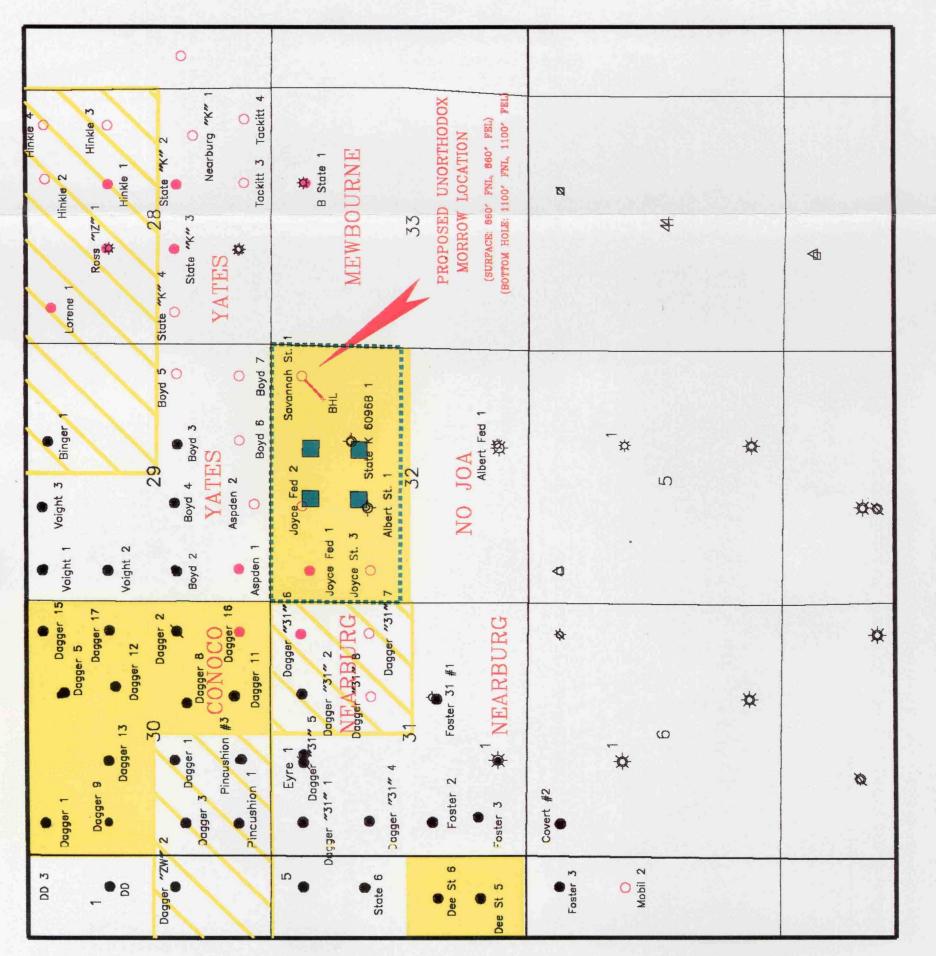
SURFACE TOPOGRAPHIC MAP NORTH DAGGER DRAW FIELD BEFORE AN EXAMINER OF THE OIL CONSERVATION DIVISION

MMMM USGS 7.5" QUA

SOME 1" = 1000"

EXHIBIT NO. C CASE NO.: 11242 Submitted by: Conoco Inc. Hearing Date: Apr 6, 1995

R25E

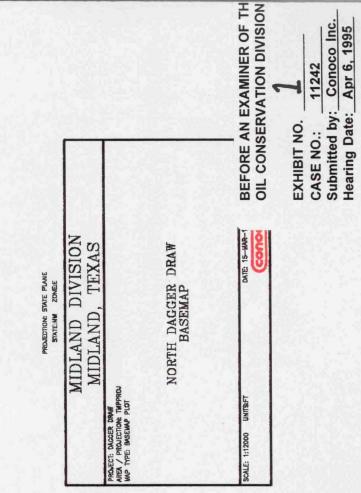


CONOCO-OPERATED ACREAGE = SOLID YELLOW

PARTNER-OPERATED W/ CONOCO W.I. = CROSS-HATCHED YELLOW

ORTHODOX MORROW LOCATION WINDOWS IN GREEN

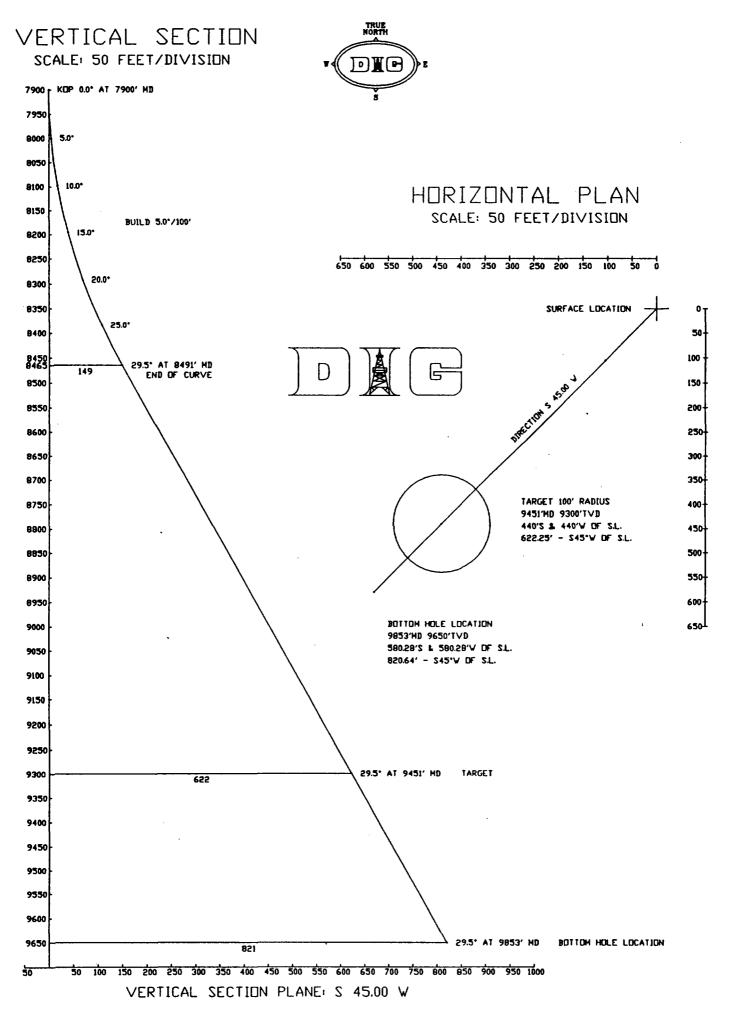
PROPOSED MORROW PRORATION UNIT



S61T

ZOST

CONOCO, INCORPORATED Savannah state #1 EDDY County, New Mexico



BEFORE AN EXAMINER OF THE OIL CONSERVATION DIVISION

	6
CASE NO.:	11242
Submitted by:	Conoco Inc.
Hearing Date:	Apr 6, 1995

D.I.G., INC.

CONOCO, INCORPORATED SAVANNAH STATE #1 EDDY COUNTY, NEW MEXICO

Calculated by Minimum Curvature Method Vert Sect Plane: S 45.00 V

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- DIRECTIONAL WELLPLAN -

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BEFORE AN EXAMINER OF THE OIL CONSERVATION DIVISION

7 EXHIBIT NO. CASE NO.: <u>11242</u> Submitted by: <u>Conoco Inc.</u> Hearing Date: Apr 6. 1995

MEWBOURNE OIL COMPANY

500 W, TEXAS, SUITE 1020 MIDLAND, TEXAS 79701

> (915) 682-3715 FAX (915) 685-4170

March 27, 1995

Conoco Inc. 10 Desta Drive, Suite 100W Midland, Texas 79705

Attn: Mr. Warren D. Richardson

Re: Conoco's Savannah State No. 1 Well Unorthodox location for the Morrow 1,100' FNL & 1,100' FEL (Directional bottom hole location), Section 32, T19S, R25E Eddy County, New Mexico

Gentlemen:

Mewbourne Oil Company acknowledges receiving your letter dated March 2 3, 1995 regarding the captioned well wherein Conoco requested Mewbourne's waiver of objection for Conoco's proposed bottom hole unorthodox location for the Morrow formation. Mewbourne accepts the terms offered in Conoco's letter subject to the following:

- In exchange for Mewbourne waiving all objections to this application, Conoco agrees to provide to Mewbourne a copy of all logs, test information and daily production reports obtained from the captioned well from the date of initial production for a period of 60 days production commencing within 30 days of Conoco's obtaining such information.
- 2) In the event Mewbourne desires to drill a well at an unorthodox location in the NW/4 of the adjoining Section 33 to a formation which is spaced on 320 acres, Mewbourne agrees to locate such well a minimum of 1,110' from the West line of said Section 33. If such well is located at least said minimum distance from such West line, Conoco agrees to waive objection for an application for said unorthodox location. As a consideration for such waiver of objection, Mewbourne agrees to furnish Conoco the well information for such Mewbourne well and within the time period described in condition (1) above.

Conoco's cooperation in connection with the above is greatly appreciated.

Sincerely,

MEWBOURNE OIL COMPANY

D. Paul Haden Landman

OIL CONSERVATION DIVISION EXHIBIT NO. 8 CASE NO.: 11242

BEFORE AN EXAMINER OF THE

CASE NO.: <u>11242</u> Submitted by: <u>Conoco Inc.</u> Hearing Date: <u>Apr 6, 1995</u>



Warren D. Richardson Staff Landman Midland Division Exploration Production North America Conoco Inc. 10 Desta Drive, Suite 100W Midland, Texas 79705-4500 BUS. (915) 686-5576 FAX (915) 686-5596

March 23, 1995

Mewbourne Oil Company 500 West Texas Avenue Midland, Texas 79701

Attn: Land Manager

Re: Application for Unorthodox Location Savannah State No. 1, North Dagger Draw Penn / Cemetery Morrow, 660' FNL, 660' FEL (Cisco Location), 1,100' FNL, 1,100' FEL (Directional Morrow bottom hole location), Section 32, T19S, R25E, Eddy County, New Mexico

Gentlemen:

D:\DATA\WDR\038\dkr

Conoco Inc. has applied for the captioned unorthodox Morrow location that is offset to the East by Mewbourne's acreage in Section 33. The nonstandard location is required due to geological considerations.

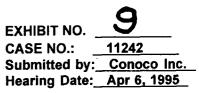
In exchange for Mewbourne waiving all objections to this application, Conoco agrees to provide all logs and test information on the well to Mewbourne within 30 days of acquisition. Also, under similar terms, Conoco agrees to waive all objections to similar unorthodox bottom hole location (i.e., orthodox Upper Penn, unorthodox Morrow) should Mewbourne with to drill in Section 33, T19S, R25E.

If you accept this agreement, please signify by signing below and return one copy of this letter to the undersigned at the letterhead address.

Sincerely, Warren D. Richardson

* ACCEPTED AND AGREED HIS ⁄27th March DAY OF . 1995. MEWBOURN Execution hereof is subject to that 14 Λ By: certain conditional letter dated Håden March 27, 1995 from Mewbourne Name: Paul addressed to Conoco. Its: Landman

BEFORE AN EXAMINER OF THE OIL CONSERVATION DIVISION



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. 11242

Application of CONOCO Inc. for an Unorthodox Gas Well Location, Eddy County, New Mexico.

CERTIFICATE OF MAILING AND COMPLIANCE WITH ORDER R-8054

W. THOMAS KELLAHIN, attorney in fact and authorized representative of CONOCO Inc., states that the notice provisions of Division Rule 1207 (Order R-8054) have been complied with, that Applicant has caused to be conducted a good faith diligent effort to find the correct addresses of all interested parties entitled to receive notice, that on the 16th day of March, 1995 I caused to be sent, by certified mail return receipt requested, notice of this hearing and a copy of the application for the referenced case along with the cover letter, at least twenty days prior to the hearing set for April 6, 1995, to the parties shown in the application as evidenced by the attached copies of receipt cards, and that pursuant to Division Rule 1207, notice has been given at the parties provided by such rule.

W. Thomas Kellahin

SUBSCRIBED AND SWORN to before me on this 5th day of April, 1995.

belix Notary Public

My Commission Expires: June 15th, 1998

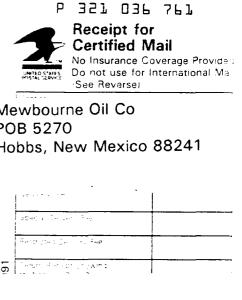
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PS Form 3811, December 1991 #U.S. GPO: 1993-352-714



105 South Fourth Street Artesia, New Mexico 88210

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	Special Teller, Fee	
	Restricted Delivery Fee	
991	Return Receipt Soowing to Whom a Date Delivered	
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<u>B</u>∛357 030 205



Receipt for Certified Mail No insurance Coverage Provident Do not use for International Ma See Reverse

Nearburg Producing Company 3300 North "A" Street 3ldg. 2, Ste. 120 Midland, TX 79705 Attn: Bob Shelton

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MARCH 16, 1995

DOMESTIC RETURN RECEIPT

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PS Form 3811 , December 1991 * U.S. GPO: 199	3—352-714 DOI	MESTIC RETURN RECEIPT		Receipt for Certified Mail No Insurance Coverage Provided Do not use for International Mail (See Reverse)
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