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LOCATION

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE , NEW MEXICO

Hearing Date

AUGUST 31, 1988 **Time:** 8:15 A.M.

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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT 1 OIL CONSERVATION DIVISION STATE LAND OFFICE BUILDING 2 SANTA FE, NEW MEXICO 3 31 August 1988 4 5 EXAMINER HEARING 6 7 IN THE MATTER OF: 8 Application of TXO Production Corpor-CASE 9 ation for an directional drilling and 9470 an unorthodox oil well location, Lea 10 County, New Mexico. 11 12 BEFORE: Michael E. Stogner, Examiner 13 14 15 16 TRANSCRIPT OF HEARING 17 18 APPEARANCES 19 For the Division: 20 21 22 For the Applicant: Chad Dickerson 23 Attorney at Law DICKERSON, FISK & VANDIVER 24 Seventh & Mahone/Suite E Artesia, New Mexico 88210 25

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3 1 MR. STOGNER: This hearing 2 will come to order for Docket No. 26-88, August 31st, 1988. 3 I'm Michael E. Stogner, appointed Hearing Examiner for today's cases. 5 The first thing we'll consider 6 today is Case Number 9470, which is the application of TXO 7 Producing Corporation for directional drilling and an unor-8 thodox oil well location, Lea County, New Mexico. 9 Call for appearances. 10 MR. DICKERSON: Mr. Stogner, 11 I'm Chad Dickerson of Artesia, New Mexico, appearing on 12 behalf of TXO Production Corp. and I have three witnesses. 13 MR. STOGNER: Are there any 14 other appearances? There being none, will the witnesses 15 please stand at this time and raise your right hand. 16 17 (Witnesses sworn.) 18 19 Mr. Dickerson? 20 21 CAROL MORGAN SLEDGE, 22 being called as a witness and being duly sworn upon his 23 oath, testified as follows, to-wit: 24 25

4 1 DIRECT EXAMINATION 2 3 BY MR. DICKERSON: Sledge, will you state your name, 4 0 Ms. 5 your occupation, and by whom you're employed, please? 6 My name is Carol Sledge and I'm a A 7 landman for TXO Production Corp. 8 And you have previously testified before Q 9 Examiner recently, have you not, and your credentials Mr. 10 as a landman are of record? 11 А Yes, sir. And are you familiar with the land situ-12 Q ation surrounding TXO's application in Case 9470? 13 14 Yes, I am. А 15 MR. DICKERSON: Is the witness 16 qualified, Mr. Stogner? 17 MR. STOGNER: Ms. Sledge is so 18 qualified. 19 Sledge, will you summarize the pur-Ms. Q 20 pose of TXO's application in Case 9470, please? 21 А TXO is seeking authority to re-enter the 22 Amoco Hooper No. 1 Well located at a surface location 1,980 23 feet from the south line and 610 feet from the west line of Section 2, Township 17 South, Range 38 East. 24 25 We propose to deviate from vertical and

5 1 encounter the formation Strawn and Atoka at 11,600 feet 2 with a potential bottom hole of 1,131 feet from the south line and 308 feet from the west line of said Section 6. 3 That's in the Atoka formation and what Q 5 anticipated footages do you anticipate penetrating the 6 Strawn at? 7 11,600 feet. Oh, for the bottom hole А 8 location? 9 In the Strawn. Q 10 1,206 feet. А From the south? 11 Q Uh-huh. 306 from the west line. А 12 And in the event TXO's re-entry of that 13 Q 14 Amoco Hooper Well is unsuccessful, what does TXO seek to 15 do? It seeks to drill a well at an unortho-16 А dox location 1,131 feet from the south, 308 from the west 17 18 line at a surface location. 19 And that would be a vertical hole? Q 20 Vertical hole, yes. Α 21 Q Okay. Will you refer to what we have 22 TXO Exhibit Number One and tell Mr. Stogner submitted as 23 what your plat shows? 24 This is a land plat showing the re-entry Α 25 well. It's located in the northwest quarter of the south-

6 1 west guarter of Section 2. 2 What is the current spacing rules ef-0 3 fective in this area? Currently it's statewide 40-acre spac-4 Α 5 ing; however, we have requested 80-acre spacing units. 6 In the future, but it's being drilled on Q 7 40-acre spacing. 8 А Right. 9 Okay, Does TXO operate the entire south-Q 10 quarter which you have shaded in yellow on Exhibit west 11 Number One? Yes, they do, and all the minerals they 12 А 13 desire to find in that southwest quarter. 14 Q And the proposed, anticipated penetra-15 tion of your principal objectives in this well, the Strawn 16 and the Atoka formations, actually lie in the southwest 17 quarter of the southwest quarter, do they not? 18 А Yes, they do. 19 Is title to all interests common 0 20 throughout the southwest quarter of Section 2? 21 Yes, it is. А 22 So crossing that 40 -- that quarter Q 23 quarter boundary line makes no economic or other difference 24 to any of the parties, royalty owners, working interest 25 owners, or anyone else.

7 1 Correct. А 2 Okay. Identify what we have submitted Q 3 as Exhibit Number Two and tell Mr. Stogner what that is. 4 Exhibit Two is the affidavit of mailing А 5 that we would submit in accordance with Rule 1207 and Rule 6 111. 7 And the large number of interest owners Q 8 is primarily because there is numerous unleased mineral 9 owners --10 On offsetting tracts, right. А 11 Q Okay. MR. DICKERSON: I have no fur-12 13 ther questions of Ms. Sledge, Mr. Stogner. 14 15 CROSS EXAMINATION 16 BY MR. STOGNER: 17 Sledge, what is the present status 0 Ms. 18 on that particular well, the Hooper Well? 19 The Hooper Well? А 20 Uh-huh. Q 21 А I believe it was P & A'd out there, just 22 sitting out there last time I saw it. 23 And who would that operator be? Q 24 А Amoco. 25 Q Has Yates obtained clear title or -- for

8 1 this particular well or --Have we clear title to it? 2 А Yes, ma'am. 3 Q А Yes, sir. 4 5 MR. STOGNER: Okay. I have no 6 further questions of Ms. Sledge. 7 8 GREG WILSON, a witness and being duly sworn upon his 9 being called as oath, testified as follows, to-wit: 10 11 DIRECT EXAMINATION 12 BY MR. DICKERSON: 13 14 Q Mr. Wilson, will you state your name, your occupation, and by whom you're employed and in what 15 16 capacity? My name is Greg Wilson. I'm employed by 17 А 18 TXO Production Corporation as a geologist. 19 Q And you have previously testified before 20 Mr. Stogner as a petroleum geologist, have you not? 21 Yes, I have. А And have you made a study of the avail-22 Q able geological data surrounding TXO's application in this 23 24 case? 25 Yes, I have. Α

Q Will you identify what we have submitted to Mr. Stogner as TXO Exhibit Number Three and discuss
that map for him?

A This is a structure map on the top of
the Strawn limestone which is our wildcat objective. In
the -- in Section 35 and extending into the north half of
Section 2 and the east half of Section 34 is the Knowles
B Devonian Field.

9 We have not looked at any production10 because we don't intend to drill to the Devonian.

Structure on the Strawn is basically 11 down dip to the southwest coming down off of the Devonian 12 structure. The fault which is on the map is based on well 13 data, specifically the Amerada Hamilton No. 1-A in the 14 northwest of the southeast and the Amerada Rhodes No. 2-A, 15 which is in the northeast of the southeast. There's about 16 300 feet of throw between those two wells I've interpreted 17 18 as a fault, and it's also based on seismic data.

We see the Strawn thickening to the
south, which I will show in my next exhibit, a cross section, and so we anticipate approximately 200 feet of total
Strawn section at our location.

The shaded area in which lies our bottom
hole location, is a seismic anomaly that's based on one,
two, three, four seismic lines that we have in the area.

۱ The seismic anomaly is a function of the In passing from the slow shales into the fast 2 porosity. 3 Strawn limestone we get a seismic reflection and then from 4 the base of the Strawn limestone down into the slow Atoka 5 shales, a second reflection when there is no porosity 6 present. When there is porosity present, we get an addi-7 tional reflection from the base of the porosity, which will be a slow interval within the Strawn, and that's the seis-8 9 mic anomaly that we're looking for. 10 The surface location of the Amoco Hooper Well appeared to be right on the margin of one of our 11 12 anomalies. Our bottom hole location, or actually 13 the point at which we'll penetrate the Strawn, which is 14 1250 feet from the south line, 350 from the west line, ap-15 16 pears to be the most advantageous spot for the Strawn. 17 It's the best, most distinct looking part of the anomalies 18 find, and being a wildcat, we want to drill the that we best spot within the anomaly; therefore we need the irre-19 20 gular location. 21 That's everything I need to discuss 22 there. 23 Mr. Wilson, refer to your cross section Q 24 submitted as Exhibit Four and discuss that for us. 25 This is a cross section which is noted Α

10

on Exhibit Number Three as A to A'. It shows -- the cross
section goes from north on the left to the south on the
right and shows our proposed re-entry.

These are two wells which are two wells which are on the up-thrown side of the fault but show the Strawn section, the Strawn limestone, which is colored blue, as thickening very drastically between those two wells, and coming down dip and then we've interpreted the fault, added that on the cross section, and we show what -the amount of Strawn that we anticipate in our wellbore.

This is just basically to show that the
Strawn is present in this area and is thickening in the
direction of our wildcat location.

14 Q Okay, in your opinion, Mr. Wilson, is 15 the requested unorthodox location sought by TXO in this 16 case the best bottom hole location for a well located on a 17 southwest guarter southwest guarter 40-acre spacing unit?

18 A Yes. Based on the work that we've seen
19 and done in the -- within the Lovington -- the existing
20 production in the Lovington Strawn play, and wells that
21 have been drilled on or off the seismic lines, this appears
22 to be the best location that we can drill.

23 MR. DICKERSON: I have no fur-24 ther questions of Mr. Wilson.

25

11

12 1 2 CROSS EXAMINATION 3 BY MR. STOGNER: Mr. Wilson, how deep did the original 4 Q 5 Hooper Well No. 1 go? 6 А It was 9200 feet. 7 Now, did that penetrate either Q the Strawn or the Atoka? You indicate the Strawn. 8 9 No, they drilled to the top of the Wolf-А They were looking for a Bone Spring development, 10 camp. 11 which is equivalent to the Abo in this area; it's the basinward equivalent to the Abo. 12 13 So there's no geological information on Q -- depicted on this particular well. 14 15 The structural position of the No. А 16 is not really that important and because of the Strawn 17 nature of the shallower versus the deep structure, we 18 couldn't get any structural information from it and, of 19 course, no stratigraphic information because it didn't 20 penetrate the Strawn. 21 The top of the Strawn should be at 22 That's where we anticipate it, so this well 11,150 feet. was about 1000 feet short -- 2000, I should say. 23 24 Now you show about three seismic runs 0 25 across this area, right?

13 1 Four, actually. А 2 All right, when were those four run? Q 3 The north/south line is spec data, which А was shot, I believe, early 1980, 1982 or '83; I'm guessing 4 5 at that. 6 And the remaining lines, the northeast-7 southwest line is one that we shot last year. 8 And the east-west line and the north-9 west/southeast line we shot ourselves this year. 10 There appears to be very little well Q 11 control out there, especially to the south. There is. The next closest well control 12 А 13 would be in Section 16 and then over to Section 7 or 8 to 14 the west. Most of the well control was drilled on Devon-15 ian structures and we're looking away from the structures 16 and there's very little well control. 17 And from this seismic data you have de-0 18 termined that deviating this well that far off to the south 19 would be a better location. 20 Well, the surface location of the Amoco А 21 Hooper Well, as I said, appears to be right on the margin. 22 From what we've seen from other wells drilled on the edge 23 or near the edge of these anomalies in the existing Strawn 24 play, sometimes you can be fooled; it might not extend as 25 far as it actually appears to, and the safest course of ac-

1 tion is to drill for the center of these anomalies. 2 The -- even if you're within the Strawn porosity interval near the margins, oftentimes the perme-3 ability is poor, and since it is a wildcat, we don't know 5 how thick or how much extent these really might have in 6 this area, we feel that it's most prudent to drill the 7 center of the anomaly, the apparent thickest part of it. 8 Q Have you found in your past experience 9 with the seismic, or do you have a pretty good record about 10 choosing the top of the anomaly or the best part of an ano-11 maly with the seismic data only? Well, I'm -- I'm not the geophysicist 12 А 13 that worked this, but I have been closely associated with 14 it, and the seismic seems to be a very good tool for find-15 ing these. 16 We drilled two wells based on seismic. 17 Both of them, we thought, would be -- well, one we thought 18 would be within the center of a very small anomaly. The 19 other we thought would be towards the edge. We anticipated 20 30 or 40 feet of porosity and we got 26 feet, and it's a 21 good well but it's not one of the better wells in the area, 22 and from the other seismic that we have in-house that 23 crossed existing production, we feel like our geophysicist 24 has a very good handle on picking these anomalies and where 25 the best, thickest part is.

14

15 1 Let me take a look in here, when I look Q 2 at this limit of seismic anomaly, that's that gray block. 3 А Right. What does that tell me whenever I look Q at that boundary? What kind of a --5 6 Well, it's a typical brief of the core. А 7 When there's no porosity present you'll get a reflection 8 from the top of the Strawn and one from the base and so 9 you'll have essentially two straight lines on the seismic. 10 When the porosity is present you'll tend to get a second reflection developing within the second orb 11 I mean within -- between the two reflections, or just a 12 --change in the two reflections and the boundaries show where 13 14 it appears that there is no porosity and it's starting to 15 give us an anomaly, a change in the seismic character of 16 the Strawn. 17 So when I'm looking at your data I'm Q 18 seeing zero porosity in the white area and --19 Well --Α 20 Q -- then in that gray area I'm getting --21 А Well, as I said, it's hard to directly 22 correlate a seismic anomaly with porosity. The porosity 23 causes the seismic anomaly but there can be some (unclear) 24 effects where the anomaly will appear to be farther than 25 where the actual porosity may extend or it may be the

opposite, the porosity may extend farther than we're seeing
 an anomaly.

So we feel it's going to be safest to shoot the stencil (sic) and take what we believe to be the thickest part of the anomaly and the most distinctive anomaly; rather the most distinctive part of the anomaly, and that's where we've spotted our bottom hole location.

8 If you're familiar with the Lovington 9 Strawn production to the west, there are a lot of cases 10 where there'll be outstanding wells with very thick 11 porosity sections one location, or sometimes less than one 12 location, away from a dry hole where they found nothing, so 13 the boundaries can be very sharp.

So it's very easy to miss these things.
15 Q Has seismic work like this, has it shown
16 in the past over in the Lovington Strawn area to be fairly
17 accurate? Showed these anomalies and then they'd later
18 correspond with the production pods or algal mounds that we
19 see over there?

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A It's not a 100 percent correlation but it's -- it's a very good one; probably 60 to 70 percent of the very good, distinct anomalies will have Strawn porosity present, and that's an estimate on my part, that's not based on any statistical data but I think that's a good estimate.

1 Were you the first geologist to propose Q a directional drilling based on this seismic in this par-2 3 ticular well? 4 А You mean the first within TXO or --5 Q Yes, the first within TXO. 6 А Well, we -- the directional drilling was 7 based on the seismic data which was on the recommendation 8 of our geophysicist and the reason we want to do the direc-9 tional drilling is because it will be a big cost savings, 10 but the basis for the unorthodox location is the seismic 11 data. 12 Q I have no further questions of Mr. Wil-13 son. 14 MR. STOGNER: Are there any 15 other questions of this witness? 16 MR. DICKERSON: No, sir. 17 MR. STOGNER: The witness may 18 be excused. 19 MR. DICKERSON: Mr. Gary 20 Travis, Mr. Stogner. 21 22 GARY TRAVIS, 23 being called as a witness and being duly sworn upon his 24 oath, testified as follows, to-wit: 25

18 1 DIRECT EXAMINATION 2 3 BY MR. DICKERSON: 4 Mr. Travis, will you state your full 0 5 name, your occupation and by whom you're employed? 6 А My name is Gary Travis. I'm a petroleum 7 engineer with TXO Production Corp., Midland. Texas. 8 You have also recently testified before Q 9 Stogner, have you not, and your credentials are a Mr. 10 matter of record with this Division? 11 А Yes. 12 MR. DICKERSON: Is the witness 13 qualified, Mr. Stogner? 14 MR. STOGNER: Mr. Travis is so 15 qualified. 16 Mr. Travis, will you refer to what TXO Q 17 has submitted as Exhibit Number Five and describe what that 18 shows for Mr. Stogner? 19 This is a wellbore schematic of the well А 20 as it now stands. It shows the plot and the six plugs that 21 Amoco set in the wellbore when they P & A'd it in 1985. It 22 shows the surface casing and the intermediate casing still 23 set and the fact that they didn't run any long -- any production string. 24 25 It also shows the proposed kickoff point

I at the plug at 8150.

2 Okay, refer to what we've submitted as Q 3 TXO Exhibit Number Six and tell us what you show on that. This is a vertical section and a plan А 5 view of the proposed well showing a kickoff point at 8150, 6 the intended 1-1/2 degree per 100 build rate of angle that 7 we plan to achieve and then the average is 17.46 degree to 8 TD. 9 it shows the 775 feet removal from Also surface location and the top of the Strawn and a 900 10 the feet to the southwest location in the Atoka. It also shows 11 a measured depth of 11,729 feet for the well and a true 12 vertical depth of 11,600 feet. 13 14 In the plan view section it shows a surface location, our intended angle and our location in the 15 16 Strawn and the bottom hole location in the Atoka with the 17 legal locations indicated. 18 It also shows radius of 100 feet for 19 each location. 20 And that's the margin of error that TXO Q 21 is requesting for the targeted locations, as given? 22 А Yes, sir. 23 Q Do you have anything further about Exhi-24 bit Number Six you'd like to add? 25 А No.

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1 Refer to Exhibit Number Seven Q and summarize for us your proposed drilling procedures. 2 3 This is a proposed drilling procedure А TXO plans to follow in the drilling of the Hooper No. 4 that 5 It starts off with drilling out the surface plug 1 Well. 6 and the plugs down to the plug at 8150 and going in there 7 and dressing off the plug and kicking off at 8150 with the down and sidetrack drill bit and drilling to approximately 8 9300 feet, at which time we will choose the angle that we 9 need to bottom hole the well at the proposed location. 10 At that time we'll run in with a pack 11 hole assembly and drill to TD and if necessary, we'll make 12 a correction run, but we intend to -- we hope to just have 13 14 one motor run. And that's what that shows. 15 And contemplated by TXO as a part of 16 Q 17 are the required directional surveys by Rule 111 for this 18 any well intentionally deviated? 19 А Correct. At TD we'll run a multi-shot 20 back to surface or to tie into the multi-shot we've already 21 run at the kickoff point. 22 And you will thereby be able to -- at Q that point go to the exact bottom hole location of the 23 well. 24 25 А Correct.

21 1 Travis, in your opinion will the Q Mr. 2 granting of this application be in the interest of conser-3 vation, the prevention of waste and the protection of cor-4 relative rights? 5 А Yes. 6 MR. DICKERSON: Mr. Stogner, I 7 move admission of TXO Exhibits One through Seven at this 8 time and I have no further questions of Mr. Travis. 9 MR. STOGNER: Exhibits One through Seven will be admitted into evidence. 10 11 CROSS EXAMINATION 12 13 BY MR. STOGNER: 14 15 Travis, I'd like to refer to your Q Mr. 16 Exhibit Number Six and let's look at the plan view over to 17 the right. 18 А Okay. 19 Q You propose to enter the top of the 20 Strawn 1250 from the south line and 350 from the west line, 21 within 100 foot radius of that particular point, right? 22 That's correct. А 23 Q Okay, let's take the worst case scenario 24 here and if you hit the top of the Strawn 100 feet to the 25 north, that would indeed put you in a different quarter

1 quarter section, would it not?

| A Yes, it would. | | | | | | |
|---|--|--|--|--|--|--|
| Q And I realize you're talking about | | | | | | |
| coming in later and asking for an 80-acre proration unit, | | | | | | |
| of course that's in the future. Can TXO be a little bit | | | | | | |
| more accurate and say what I want to do is narrow that | | | | | | |
| limit down, either to a 50-foot radius or give you no | | | | | | |
| radius at all to the north of you and keep it all to the | | | | | | |
| south. I think you can understand this 40-foot interval | | | | | | |
| that we're talking about, you're getting 100-foot leeway | | | | | | |
| with your point that you propose to enter the top of the | | | | | | |
| Strawn, but if you don't, we have a situation here. You'd | | | | | | |
| have to come back in for hearing or one way or the other. | | | | | | |
| A That's right. | | | | | | |
| MR. DICKERSON: Mr. Stogner, | | | | | | |
| we did request 100 feet, and you and I, I think, briefly | | | | | | |
| discussed this situation on the phone. Would not limiting | | | | | | |
| TXO's margin of error radius of their target by 50 feet | | | | | | |
| solve our problem? | | | | | | |
| MR. STOGNER: I think it would | | | | | | |
| be. At least | | | | | | |
| MR. DICKERSON: That would | | | | | | |
| keep us in Unit M. | | | | | | |
| MR. STOGNER: That's right. | | | | | | |
| I Contraction of the second | | | | | | |
| MR. DICKERSON: For both | | | | | | |
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23 1 zones. 2 Of course, we were looking at А Yeah. 3 economics; the smaller the target, the more expensive. I 4 think that, you know, our 100 foot radius is more import-5 ant in the Atoka than it would be in the Strawn because we, 6 you know, we're going to try and hit that Strawn right on 7 and then if we were off a little bit, we'll be off a little 8 bit more in the Atoka. 9 Then, you know, you have some -- some 10 margin of error running single shots as you go down in the 11 well every 100 feet, and then when you run your multishot 12 and TD, you could be off a little bit but I can see what 13 you're saying. We could have our -- a hard run to the 14 north. I guess, and maintain that 100 foot radius to the 15 south in not a semi-circle but a truncated circle. 16 Either one of these would be a -- would Q 17 be all right with TXO, either the 50 foot radius or a trun-18 cated southern limit? 19 Yes, sir. Α 20 MR. STOGNER: Okay, I have no 21 further questions of this witness. 22 Are there any other questions 23 of Mr. Travis? 24 MR. DICKERSON: No, sir. 25 MR. STOGNER: He may be

| | | | | | | 2 | 24 | |
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| 1 | excused. | | | | | | | |
| 2 | | | Anyt | hing | furth | ner | in | Case |
| 3 | Number 9470? | | | | | | | |
| 4 | | | MR. | DICKERS | SON: | No. | | |
| 5 | | | MR. | STOGN | ER: | This | case | will |
| 6 | be taken under adviser | ment. | | | | | | |
| 7 | | | | | | | | |
| 8 | (He | earing o | concl | uded.) | | | | |
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26 1 2 3 4 5 CERTIFICATE 6 7 SALLY W. BOYD, C. S. R. DO HEREBY I, CERTIFY that the foregoing Transcript of Hearing before the 8 9 Oil Conservation Division (Commission) was reported by me; that the said transcript is a full, true and correct record 10 of the hearing, prepared by me to the best of my ability. 11 12 13 14 Sally W. Boyd CSR 15 16 17 18 I do hereby certify that the foregoing is 19 a complete record of the proceedings in the Examiner hearing of Lase No. 9470, 20 heard by me on frankt 131 1988 . 21 All _, Examiner 22 **Oil Conservation Division** 23 24 25

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