1	STATE OF NEW MEXICO
2	ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
3	OIL CONSERVATION DIVISION
4	
5	IN THE MATTER OF THE HEARING)
6	CALLED BY THE OIL CONSERVATION) DIVISION FOR THE PURPOSE OF)
7	CONSIDERING: HM) CASE NO. 10,885 Meridian)
8	APPLICATION OF < MARATHON OIL, INC.)
9	JAN 4 1994
10	
11	REPORTER'S TRANSCRIPT OF PROCEEDINGS
12	EXAMINER HEARING
13	BEFORE: JIM MORROW, Hearing Examiner
14	
15	ORIGINAL
16	December 16, 1993
17	Santa Fe, New Mexico
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20	This matter came on for hearing before the Oil
21	Conservation Division on Thursday, December 16, 1993, at
22	Morgan Hall, State Land Office Building, 310 Old Santa Fe
23	Trail, Santa Fe, New Mexico, before Steven T. Brenner,
24	Certified Court Reporter No. 7 for the State of New Mexico.
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1	APPEARANCES
2	
3	FOR THE DIVISION:
4	ROBERT G. STOVALL Attorney at Law
5	
6	Santa Fe, New Mexico 87504
7	
8	FOR THE APPLICANT:
9	KELLAHIN & KELLAHIN Attorneys at Law
10	By: W. THOMAS KELLAHIN 117 N. Guadalupe
11	P.O. Box 2265 Santa Fe, New Mexico 87504-2265
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WHEREUPON, the following proceedings were had at 1 2 9:35 a.m.: 3 4 5 EXAMINER MORROW: Call the hearing back to order 6 7 and call Case 10,885. MR. STOVALL: Application of Meridian Oil, Inc., 8 9 for an unorthodox gas well location, San Juan County, New Mexico. 10 11 EXAMINER MORROW: Appearances? MR. KELLAHIN: Mr. Examiner, I'm Tom Kellahin of 12 the Santa Fe law firm of Kellahin and Kellahin, appearing 13 14 on behalf of the Applicant, and I have two witnesses to be 15 sworn. 16 EXAMINER MORROW: Will the witnesses please stand to be sworn? 17 (Thereupon, the witnesses were sworn.) 18 MR. KELLAHIN: Call at this time, Mr. Examiner, 19 20 Mr. John Zent. Mr. Zent is a petroleum landman with Meridian Oil Company, and he resides in Farmington, New 21 22 Mexico. EXAMINER STOGNER: Z-e-n-t, is that --23 MR. KELLAHIN: Z-e-n-t. 24 25 MR. ZENT: That's correct.

> CUMBRE COURT REPORTING (505) 984-2244

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1 JOHN F. ZENT,	
2 the witness herein, after having been	first duly sworn upon
3 his oath, was examined and testified	as follows:
4 DIRECT EXAMINATIO	NO
5 BY MR. KELLAHIN:	
6 Q. Mr. Zent, for the record pl	ease state your name
7 and occupation.	
8 A. John F. Zent. I'm a petrol	eum landman with
9 Meridian Oil.	
10 Q. Mr. Zent, on prior occasion	s have you testified
11 as a petroleum landman before the Oil	Conservation
12 Division?	
13 A. Yes, sir.	
14 Q. And pursuant to your employ	ment in that capacity
15 as a petroleum landman, are you famil	iar with the land
16 title issues with regards to your com	pany's Application in
17 this case?	
18 A. Yes, sir, I am.	
19 Q. Summarize for us from your	point of view what it
20 is that Meridian is seeking to do.	
21 A. Meridian is seeking to dril	l a Paradox
22 Pennsylvanian test at a nonstandard 1	ocation within the
23 boundaries of the Barker Creek-Parado	x Pool, located in the
24 northwestern portion of the San Juan	Basin.
25 Q. The Barker Creek-Paradox Ga	s Pool is spaced upon

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what spacing pattern, Mr. Zent? 1 Α. It is 640-acre proration units for gas wells into 2 the pool. 3 A standard well location in that pool requires Q. 4 what setbacks from the boundaries? 5 1650 feet from the section lines and 330 feet Α. 6 7 from the interior quarter-section lines. Those are shown in the exhibits before you. 8 We've got a plat of our staked location, Exhibit 9 3, and shaded in green shows the standard locations with 10 the setbacks. Anything within those green-shaded areas 11 12 would be standard. Anything outside those green-shaded areas would be a non-standard location. 13 14 You can also see that the location is currently staked, and we're seeking to permit the location 1250 feet 15 from the west line and 1595 feet from the north line of 16 Section 20, 32 North, 14 West. 17 The geologic staff of Meridian has recommended 18 Q. for geologic reasons the unorthodox location? 19 Α. Yes, sir. 20 All right. Let's turn back to Exhibit 1. 21 Q. That's the Application for Hearing? 22 Yes. sir. Α. 23 Page 3 of the Application for Hearing lists some 24 Q. 25 parties for notification purposes, the Ute Mountain Ute

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1	Tribe and the Bureau of Indian Affairs.
2	What's the purpose, to your knowledge, of
3	notifying those parties?
4	A. These two parties, in fact, the Ute Mountain Ute
5	Indian Tribe is the only lessor holding royalty interests
6	on lands within the Barker Creek-Paradox Gas Pool. They
7	are the sole lessor in the pool rules, and Meridian Oil,
8	Inc., or an affiliate company, El Paso Production Company,
9	is the sole lessor within the pool rules.
10	Q. Let's turn to Exhibit Number 2, and give the
11	Examiner an illustration of what you've just described.
12	A. Exhibit 2 is a plat approximately of Township 32
13	North, Range 14 West, San Juan County, New Mexico. The
14	township is the northernmost township in the State of New
15	Mexico. It borders the Colorado border.
16	The red outline on the plat depicts the exterior
17	boundaries of the Barker Creek-Paradox Gas Pool.
18	As you can see with on that plat, the entire
19	portion of the pool and Meridian's leasehold interest is
20	shown with a brown crosshatch from the southwest towards
21	the northeast, so you can see that Meridian holds 100
22	percent of the leasehold within the entire pool, with the
23	exception of 320 acres, which is the west half, Section 19,
24	32 North, 14 West.
25	That tract of land is currently subject to a

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pending oil and gas lease between Meridian and the Mountain 1 2 Ute Indian Tribe, which is awaiting approval by the Bureau of Indian Affairs. We've negotiated that lease, and we 3 anticipate its final approval within the next 45 days. 4 So in essence, Meridian and the Mountain Ute 5 Indian Tribe are the sole parties of interest within the 6 7 entire Barker Creek-Paradox Gas Pool. Are there any overriding interest owners? 8 Q. 9 Α. There are no overriding interest owners. However, Conoco and Amoco have a production payment 10 11 amounting to seven cents per MCF on gas produced from the pool. 12 All right. That interest, is that uniform 13 Q. 14 throughout the pool? Α. Yes, sir. 15 16 Q. And are the royalty percentages paid to the Tribe 17 uniform throughout the pool? They are uniform at 12 1/2 percent, with the 18 Α. exception of the new lease Meridian has negotiated from the 19 Mountain Ute Tribe on the west half of Section 19, and that 20 will be at a higher royalty rate. 21 Is it a correct conclusion, from your information 22 Q. in this display, that the direction by which this well 23 encroaches, encroaches on exactly the same parties with the 24 same interests as in the unorthodox well? 25

1 Α. Yes, sir. 2 You've identified Exhibit 1, 2, Exhibit 3, and Q. 3 that concludes your exhibits, does it not? Α. Yes, sir. 4 MR. KELLAHIN: And that also concludes my 5 6 questions of this witness. 7 We move the introduction of his Exhibits 1, 2 and 8 3. EXAMINER MORROW: Exhibits 1 through 3 are 9 admitted in the record. 10 11 EXAMINATION BY EXAMINER MORROW: 12 Who besides Conoco has the seven cents per MCF? 13 Q. Amoco, and they both split it. It's a 50-50 14 Α. split between those two parties. 15 How did they get that? Q. 16 Pardon? 17 Α. How did they come by that? Do you know? 18 Q. If I recall, in the late Fifties, the property 19 Α. was owned by El Paso Natural Gas Company. They had 20 acquired it through Pan American. Pan American had 21 22 assigned a hundred percent of their interest in these lands 23 to El Paso, reserving seven cents override. That was later 24 conveyed partially to Conoco. And it's not -- Is it really an override? 25 Q. Ι

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believe you said earlier --1 It's really a production payment in that it's not 2 Α. a flat fee, but it's a seven-cents-per-MCF, and it comes 3 4 out after certain costs and expenses are deducted. EXAMINER MORROW: Okay. Do you have any 5 questions? 6 7 MR. STOVALL: No. EXAMINER MORROW: Thank you, Mr. Zent. You may 8 9 be excused. MR. KELLAHIN: Mr. Examiner, I'd call at this 10 time Mr. Jim Hornbeck. Mr. Hornbeck is a geologist with 11 Meridian. 12 13 JAMES M. HORNBECK, the witness herein, after having been first duly sworn upon 14 his oath, was examined and testified as follows: 15 DIRECT EXAMINATION 16 BY MR. KELLAHIN: 17 Mr. Hornbeck, would you please state your name 18 Q. and occupation? 19 My name is James Hornbeck, and I'm a geologist 20 Α. with Meridian Oil in Farmington, New Mexico. 21 On prior occasions, Mr. Hornbeck, have you Q. 22 testified as a petroleum geologist before the Division? 23 Yes, I have. 24 Α. Pursuant to your employment as a geologist, have 25 Q.

1	you made a geologic study of the pool in question and have
2	determined for yourself a proposed well location for
3	Section 20?
4	A. Yes, I have.
5	Q. This represents your work and your
6	recommendations?
7	A. That is correct.
8	MR. KELLAHIN: We tender Mr. Hornbeck as an
9	expert petroleum geologist.
10	EXAMINER MORROW: We accept his qualifications.
11	Q. (By Mr. Kellahin) Mr. Hornbeck, let's turn to
12	Exhibit 4. Help us locate where we are.
13	A. Exhibit 4 is a regional map of the San Juan
14	Basin. It also has a structural datum on the base of the
15	Greenhorn, which is a Cretaceous marker throughout the
16	Basin.
17	And what it shows is the location of the Barker
18	Creek field, straddling the Colorado-New Mexico border in
19	the northwestern edge of the San Juan Basin.
20	Q. Let's turn to Exhibit Number 5 and have you
21	illustrate for us where this pool is located and where
22	within the pool your principal zone or formation lies.
23	A. Exhibit 6 I'm sorry, correction
24	Q. Yeah.
25	A Exhibit 5 is a type log from a producing well

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1	within the field, and it shows the Des Moinesian Paradox
2	intervals which are productive within the pool outline.
3	The original main pay in the field is referred to
4	as the Lower Barker Creek, and it has the original
5	perforations in that wellbore colored and marked.
6	Q. What portion or member of the pool is your
7	primary objective with this well?
8	A. In this particular test, we are targeting the
9	Desert Creek interval, still within the Paradox Pool, as
10	the main target of the well.
11	Q. Give us a general geologic description, if you
12	will, of this pool.
13	A. The Desert Creek pay is a highly stratigraphic
14	reservoir which is not nearly as well developed throughout
15	the field's outline and is very prone to stratigraphic
16	pinching out.
17	Q. What is the trapping mechanism, if you will, in
18	the reservoir in which the hydrocarbons are then contained
19	within the individual members?
20	A. Well, the gas has been accumulated in porous
21	limestones, in stratigraphic porosity, which is accumulated
22	on the flank of the Barker Dome structure and trapped with
23	tight overlying limestone sealing it in place. It's truly
24	a stratigraphic trap.
25	Q. What is the approximate total vertical interval

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1	of the pool?
2	A. Well, the entire pool encompasses approximately
3	well, say in round numbers, 900 feet of stratigraphic
4	section.
5	Q. Within that 900-foot interval, estimate for us
6	the number of different members or zones within the pool
7	that have shown the ability to produce gas.
8	A. There have been seven zones identified within the
9	pool, along the anticlinal structure, and production has
10	been established out of five of those seven zones, and
11	we're evaluating all of these zones for their additional
12	potential currently.
13	Q. How long has this pool been in existence? Do you
14	remember?
15	A. I believe the discovery well was drilled in 1945,
16	by Southern Union Gas. So that would be approximately 40
17	years.
18	MR. KELLAHIN: The records reflect, Mr. Examiner,
19	that the pool was established in March of 1950; 640-acre
20	spacing was established by Order Number R-46.
21	Q. (By Mr. Kellahin) What has been the development
22	strategy thus far for exploiting the reservoir? How many
23	wells per section?
24	A. One well per 640-acre section.
25	Q. Do you have an opinion or an anticipation as to

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1	whether or not a single well per section has provided you
2	an appropriate opportunity to encounter all of these zones?
3	A. The original development on 640-acre spacing may
4	have been adequate to develop the Lower Barker Creek pay
5	zone, but has not allowed us to develop the Desert Creek
6	and the shallower pays with a much more stratigraphic
7	nature effectively.
8	Q. Let's turn specifically to the information on
9	Section 20, then, and if you'll look at Exhibit Number 6,
10	what is that?
11	A. Exhibit 6 is an isopach of net pay of the primary
12	target in this subject well, the Desert Creek interval.
13	The proposed location is shown with regard to
14	existing well control and shows that the pay pinches out
15	rapidly to the southeast in Section 20. The scale is a
16	mile is a section, as shown there.
17	And the existing wells that are positioned on
18	this plat are the deep tests penetrating the Pennsylvanian
19	pay zones in the field currently existing, some of which
20	are still producing or are completed out of the deeper
21	Lower Barker Creek main pay, but all have given us control
22	to show the pinching out of the Desert Creek to the
23	southeast.
24	Q. Are you satisfied, Mr. Hornbeck, that you have
25	sufficient geologic control from which to make a map such
•	CUMBRE COURT REPORTING

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1	as this that is reliable for purposes that you choose to
2	apply?
3	A. Based on a study of the pay in the Desert Creek,
4	we feel this is a valid interpretation at this time.
5	Q. Has there yet to be drilled a well in Section 20
6	to any member of the pool?
7	A. That is correct, it is undeveloped at the present
8	time.
9	Q. This will be the first attempt in this section to
10	obtain production from the pool?
11	A. That is correct.
12	Q. What is your recommendation with regards to the
13	best place to put that initial well in the section?
14	A. Well we've staked the well at what we feel is our
15	best location based on reducing the chances of encountering
16	a thinner pay zone and also capturing reserves within that
17	particular 640 drill block.
18	Q. Is there a correlation between the net pay
19	isopach interval and the opportunity to produce gas out of
20	that pay interval?
21	A. Yes, there is. The wells that have the thicker
22	established pays have been much more successful commercial
23	ventures.
24	Q. When you look at Section 20 as displayed on
25	Exhibit Number 6 and compare it to Mr. Zent's Exhibit
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Number 3, which shows the four possible standard drilling 1 windows in the section, what opportunity do you have for 2 drilling a successful well to this pay member in either the 3 northeast, southwest or southeast quarter sections of this 4 section? 5 Α. Well, the only viable standard location would be 6 the location in the southeast of the northwest of Section 7 20, and if we were to position a well there, we interpret 8 it to be a thin marginal thickness of reservoir, and we 9 don't believe we would be economically successful drilling 10 it in that location. 11 Let's look, then, at the standard window in the Q. 12 southeast of the northwest and compare for us on the 13 isopach, then, what you obtain over a standard location 14 with the unorthodox location. 15 Well, the standard location would most likely 16 Α. 17 give us a thickness of between 10 and 20 feet, probably an 18 average of about 15 feet of pay. And in our experience we have found that we would 19 not be able to support the drilling of an expensive well 20 like this with that amount of pay, so we've tried to 21 increase our chances of a commercial producer in this 22 section by moving it towards the thicker, better developed 23 reservoir, as proposed in our nonstandard location right 24 now, which would be approximately 25 feet of pay. 25

1	Q. Is that enough difference in pay, potential
2	thickness, to make a difference to you?
3	A. Yes, it is.
4	Q. And what is the approximate cost of a well like
5	this?
6	A. Our wells have averaged, in drilling them, right
7	around \$1.2 million.
8	Q. And with wells of that cost to this depth, it's
9	important to you, then, to locate it at its most
10	advantageous position in the spacing unit?
11	A. That is correct.
12	Q. Do you have an opinion as to whether or not this
13	well is going to be located too close to the Ute Number 6
14	well in 17?
15	A. We have positioned this well to strategically not
16	hopefully not compete for reserves from the Ute 6, which
17	is currently completed in the Desert Creek interval. We
18	don't believe there will be a problem there.
19	Q. All right. The plan, then, is to keep them
20	sufficiently separated enough that each is competing for
21	their own unique portion of the reservoir reserves?
22	A. That is correct.
23	MR. KELLAHIN: That concludes my examination of
24	Mr. Hornbeck, Mr. Examiner.
25	We move the introduction of his exhibits; they

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are numbered 4, 5 and 6. 1 EXAMINER MORROW: Exhibits 4, 5 and 6 are 2 admitted into the record. 3 MR. KELLAHIN: And in addition, Mr. Examiner, 4 Exhibit 7 is my certificate of mailing of notification to 5 the parties that are entitled to notice in this case. We 6 would ask that that be admitted at this time. 7 8 EXAMINER MORROW: We admit Exhibit Number 7 also. 9 EXAMINATION BY EXAMINER MORROW: 10 Mr. Hornbeck, is the Ute Number 6 in Section 17, 11 Q. is that at an orthodox location? Doesn't look like it. 12 13 Α. No, it doesn't look like it. 14 Q. Do you have an estimate of how much -- of the hydrocarbon recovery from the proposed well? Have you made 15 an estimate? 16 Oh, yes, we have. 17 Α. How much is that? Q. 18 19 We're hoping to encounter somewhere in the range Α. of between 3 and 4 billion cubic feet of gas, total 20 21 recovery. And at the orthodox location, did you make an 22 Q. estimate over there? 23 Yes, we did. It would be an un- -- We wouldn't 24 Α. drill the well. 25

1	Q.	Wouldn't drill the well?
2	Α.	No.
3	Q.	Wouldn't be
4	Α.	We couldn't justify the expenditure.
5	Q.	Would the recovery be on the order of 15/25 of
6	that amou	nt or
7	Α.	Yes, yes.
8	Q.	something like that?
9	Α.	Yeah.
10	Q.	And you said you had gained about ten feet
11	Α.	Yes, hopefully.
12	Q.	of net pay by moving?
13		How about the Colorado portion of the pool? Is
14	there sub	stantial development up there or not?
15	Α.	Well, there's a well on every 640 within the pool
16	outline,	the delineated structural pool outline for the
17	Lower Bar	ker Creek, and we are currently looking at the
18	developme	nt of the shallower pay zones in that portion of
19	the pool	also.
20	Q.	Is the state line shown on here or not?
21	Α.	Yes, it is. On Exhibit 6, the Colorado-New
22	Mexico bo	rder is directly north of the New Mexico heading
23	on the ma	p. That is the top Section 8 is a cutoff
24	section,	as well as Section 9, and they butt up against the
25	Colorado-	New Mexico border.

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1	Q. Okay. So a portion of Exhibit 3, then I know
2	you didn't testify on that, but is a portion of that
3	Colorado and part of it New Mexico, or is that all New
4	Mexico?
5	A. I'm not sure I understand what you're asking me.
6	Q. This Exhibit Number 3, do you know if it shows
7	the Colorado portion of the pool or only the New Mexico?
8	A. It is exclusively New Mexico.
9	MR. STOVALL: The top of the exhibit is the state
10	line; is that right, Mr. Hornbeck? It appears to be.
11	You've got Section 8 as the top row going across.
12	THE WITNESS: Yes, it is.
13	Q. (By Examiner Morrow) Do you know if the same
14	ownership for To satisfy my curiosity, is the same
15	ownership situation does it prevail in Colorado as well
16	as New Mexico as to Meridian and the Ute Tribe?
17	A. I believe it does. I could check very quickly
18	with our landman and make sure that's the case.
19	MR. ZENT: That is correct, sir. Ute Mountain
20	Tribe owns a hundred percent of the minerals and Meridian
21	is the sole lessor
22	EXAMINER MORROW: Okay.
23	MR. ZENT: lessee.
24	EXAMINER MORROW: Thank you, Mr. Hornbeck. You
25	may be excused.
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1	MR. KELLAHIN: That concludes our presentation in
2	this case.
3	EXAMINER MORROW: Thank you, Mr. Kellahin.
4	Case 10,885 will be taken under advisement.
5	(Thereupon, these proceedings were concluded at
6	9:57 a.m.)
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1 CERTIFICATE OF REPORTER 2 3 3 STATE OF NEW MEXICO) 4	22
 STATE OF NEW MEXICO) SS. COUNTY OF SANTA FE) 5 6 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. 12 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. 16 WITNESS MY HAND AND SEAL January 1, 1994. STEVEN T. BRENNER CCR No. 7 	
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24 heard by me on Dec 16 1993.	
25 Oll Conservation Division	

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