1 2	STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO								
3	12 October 1988								
5	EXAMINER HEARING								
7									
8	IN THE MATTER OF:								
9	Application of Meridian Oil, Inc. for CASE a horizontal directional drilling pi- 9498 lot project and special operating rules								
10	therefor, Rio Arriba County, New Mexico, and								
11	Application of Meridian Oil, Inc. for 9499								
12	a horizontal directional drilling pi- lot project and special operating rules								
13	therefor, San Juan County, New Mexico.								
14	BEFORE: David R. Catanach, Examiner								
15									
16									
17	TRANSCRIPT OF HEARING								
18	APPEARANCES								
19	For the Division: Robert G. Stovall								
20	Attorney at Law								
21 22	Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico								
23	For Meridian Oil, Inc: W. Thomas Kellahin								
24	Attorney at Law KELLAHIN, KELLAHIN & AUBREY								
25	P. O. Box 2265 Santa Fe, New Mexico 87504								

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1	MR. CATANACH: Call next Case							
2	9498.							
3	MR. STOVALL: Application of							
4	Meridian Oil, Inc., for horizontal directional drilling							
5	pilot project and special operating rules therefor, Rio							
6	Arriba County, New Mexico.							
7	MR. CATANACH: Are there ap-							
8	pearances in this case?							
9	MR. KELLAHIN: Mr. Examiner,							
10	I'm Tom Kellahin of the Santa Fe law firm of Kellahin,							
11	Kellahin & Aubrey.							
12	I'm appearing on behalf of the							
13	applicant and I have four witnesses to be sworn.							
14	MR. CATANACH: Any other ap-							
15	pearances?							
16	Will the witnesses please							
17	stand and be sworn in?							
18								
19	(Witnesses sworn.)							
20								
21	MR. KELLAHIN: Mr. Examiner we							
22	would like for hearing purposes to consolidate the testi-							
23	mony of this case with the following case, which is 9499.							
24	The testimony is similar and							
25	the witnesses are the same for each case.							

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At this time

we'll call Case 9499.

MR. STOVALL: Application of Meridian Oil, Inc., for a horizontal directional drilling pilot project and special operating rules therefore, San Juan County, New Mexico.

MR.

CATANACH:

MR. KELLAHIN: Mr. Examiner, the exhibit book is organized where Exhibit A is the geologic montage, which we have put on the wall. There is an extra copy of that display in the exhibit book.

Exhibit B is the balance of the exhibit book. There are exhibit pages in Exhibit B numbered 1 through 49, and those exhibits refer to the reservoir engineering witness' testimony, the drilling engineer witness' testimony, and the landman's testimony about ownership and notices.

The exhibits are separated so that you can look behind the tab for the Sunray Well and find all the relevant exhibits for that application and if you'll look behind the tab for the 32-5 Well, you'll find all the exhibits that refer to that well.

Exhibit A is a montage that refers to both the wells plus other additional information.

The first witness is a geologic witness for Meridian, Mr. Dana Craney.

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DANA L. CRANEY,

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A I have.

Q Pursuant to that study have you caused to be prepared Exhibit A?

A Yes, sir.

MR. KELLAHIN: At this time,
Mr. Examiner, we tender Mr. Craney as an expert geologist.
MR. CATANACH: He is so qualified.

Q Mr. Craney, if you'll take a pointer, sir, and go to the display on the wall,

Before you discuss the details of your display, simply take a moment and identify the information on the display and show us how to read the information .

A Okay. This is a montage consisting of a net coal isopach. This isopach map is from a publication by Kelso (sic) and others published in 1988. The publication was prepared for GRI.

In addition we have four type logs. The type log for the Fruitland Basal Pool is the Cedar Hill type log. They type logs for the two proposed horizontal wells and the well for the San Juan 404 High Angle Well in the 30-6 Unit.

The -- the montage will be used to discuss the regional relationships of our horizontal well pilot project.

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1 Q What is the source of the information 2 that shows the coal thickness or the coal isopach display 3 on the -- on the map? The source of the information is Α Okay. 5 a publication by Kelso, and others, in 1988. It was a pub-6 lication made for gas researching. 7 Q that information utilized by you and 8 other geologists before the Examiner in the July hearing 9 with regards to the special rules for --10 Α Yes, sir, it was. This is the same iso-11 pach map that we used (not clearly understood>) 12 Last year the Division approved for Mer-13 idian the drilling of a horizontal or high angle well in 14 the San Juan Basin. Can you identify that well for us? 15 Α Yes, sir. The San Juan 30-6 No. 404 16 Well. located in the northeast of 23, 30 and 7. On the 17 isopach map the 30 and 6 unit is this orange denoted there. 18 Would you describe generally some of the 19 background for Mr. Catanach about the geology for the San 20 Juan 30 and 6 Unit 404 Well? 21

A Okay, sir. The -- the geology of the -- of the 404 Well consists of a target zone, which -- Meridian target -- would be about two-thirds of the coal in the Fruitland formation existed in the lower portion of the 404 Well in 30 and 6 Unit.

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The 404 was used as a high angle well to test this type of technology. The wellbore intercepted the top of this coal in the target zone and extends down laterally across approximately 38 to 40 feet of coal and it TD'd at the bottom of the basal coal.

That was a pilot project by Meridian to Q drill in the Fruitland Coal formation a horizontal well, was it not?

> Yes. Α

What were you attempting to do with that Q well that you could not accomplish with a conventional well?

With a high angle well, or a horizontal Α well, we're attempting to extend the borehole laterally through the formation to increase the surface area exposure to the wellbore and to increase or optimize their chances of intercepting (unclear) fractures

And has that well been drilled and completed at this time?

Α Yes, sir, the well was drilled; it is an operation and production success and that will be discussed in detail in a few minutes.

Let's go now to the San Juan 32-5 Well Q and have you describe why Meridian seeks to drill that well as an additional pilot project.

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A Okay. The -- the reason why Meridian has chosen two other locations to -- for our pilot project is the fact that the way that the coals are deposited in the coastal environment behind the retreating Pictured Cliff shoreline, we have a variety of situations which have occurred.

We have anywhere from thin. couple inch thick coals to coals over 20 feet thick.

We have different amounts of impurities in the coal from the streams that have flowed through the swamps.

We have increased coal maturation to the north due to overburden and thermal maturation, so that we have different trends of coal that behave differently, would behave differently when we try to produce this.

Meridian will be actively drilling in these areas. We were actively drilling in this area, so to test the technology of a horizontal well, we -- we can't drill in the same type of trend that's producing so prolifically from our vertical wellbores in the 30 and 6 Unit. We have to try other trends where Meridian owns some property.

The obvious difference on the well logs is the fact that the lower portion of the 404 Well shows about 40 feet of coal in 7 zones; whereas, in the 32-5 Unit

FORM 25C16P3

we see that we're not going after the basal coal, we're going after an upper coal which is better developed than the basal and we're looking at one single coalbed to -- to stay horizontal in during the extensive lateral, and this coalbed is approximately 25 feet.

So the wireline logs shows an obvious difference between these two trends, and as I gave you a brief geological description how as you go across the basin you'll see different geological trends from just the geological history of the Fruitland coal.

Q Contrast that, now to the Sunray Well.

A To contrast the 32-5 Well to the Sunray, we see that in the Sunray we have a very thick basal coal now developed which we're going -- which we're proposing to drill horizontally in.

This coal is approximately 19 feet thick in the Sunray Well and, as you see, we're going to -- we're dealing with the basal coal now instead of this upper coal.

These basal coals would not be the same pool between the two, would not be laterally continued over that -- that distance.

Q Other than the well that Meridian has drilled in the San Juan 30 and 6 Unit, plus these two other proposed permits, are there any other permitted horizontal wells in the basin area?

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A Yes, sir. Horizontal recovery permitted two wells in Sections 20 and 28 of 32, 5, and these wells permitted for directional drilling approximately. three miles from our proposed 32-5 No. 100 Well.

Q Has that company drilled either of those wells yet?

A No, sir, they have not.

Q In summary, Mr. Craney, what do you attempt to learn from implementing both of the drilling of these wells from a geologic perspective?

A From a -- well, from a geological perspective, again we're just -- we want to learn the technological advantages of trying to stay in the coal zone while we're drilling vertically. We wish to learn the degree of fracturing that we can drill laterally through, and the horizontal technology will help us to determine the viability of this type of drilling technique in different geological regimes.

Q And the well you drilled in the 30 and 6 unit does to provide you a sufficient basis of information upon which to determine whether or not you'll have further horizontal wells in the basin area.

A No, sir, a single data point would not accomplish that.

MR. KELLAHIN: That concludes

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my examination of Mr. Craney.

We would move the introduction

of Exhibit A.

MR. CATANACH: Exhibit A will

be admitted into evidence.

I have no questions of this

witness.

MR. STOVALL: I don't know if

Mr. Craney is the witness to answer the question or not.

You can maybe advise me at the end of it.

# CROSS EXAMINATION

BY MR. STOVALL:

You were present at the -- the proposed Fruitland coal rules hearing in Farmington and you testified, and in those hearings part of the Committee witnesses suggested, part of what they suggested, was provisions for horizontal drilling, is that correct?

A Yes, sir.

Q Are the proposed locations and techniques being used consistent with what was proposed by the -- I realize no rule has yet been entered in that case. What I'd like to know, are these -- what you're proposing -- is it consistent with what was suggested for rules for horizontal drilling in that case?

I can answer, but, yes, they are, and
yes, it will be discussed in some detail further on in this
case.

MR. STOGNER: I have nothing
further.

MR. KELLAHIN: Mr. Examiner, we'll call Mr. Craig McCracken. Mr. McCracken is a reservoir engineer and he wants to discuss with you the results of the San Juan 36 Unit 404 Well, plus the reservoir information on the two wells that are the subject of these two applications.

# CRAIG A. MCCRACKEN,

being called as a witness and being duly sworn upon his oath, testified as follows, to-wit:

### DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Mr. McCracken, for the record would you please state your name and occupation?

A My name is Craig A. McCracken. I'm a Senior Reservoir Engineer with Meridian Oil Corporation in Farmington, New Mexico.

Q Mr. McCracken, have you previously testified before the Division as a reservoir engineer?

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A Yes, sir, I have.

Q And you've also studied the drilling, completion, and production information from the 404 Well.

A Yes, I have.

 $$\operatorname{\mathtt{MR.}}$$  KELLAHIN: We tender Mr. McCracken as an expert reservoir engineer.

MR. CATANACH: He is so qualified.

Q Mr. McCracken, let's take a moment, sir, and have you start with the exhibit booklet which is marked B, and turning to page number 1, let's talk about the well that was drilled on last year's horizontal order. It's the 404 Well?

A Yes.

Q Would you summarize for the Examiner, first, in a horizontal perspective, what was allowed to occur by the Division and then what you in fact did when you drilled the well in terms of direction.

A Exhibit Number One shows a surface location plat with the 90 degree window that was permitted for the No. 404, and the dashed line represents the actual horizontal extent of the well the way it was drilled.

Q Let me have you turn now to page 2 and show us a from a vertical perspective what occurred with the drilling of the 404 Well.

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A The 404 was first drilled vertically through the coal seam and then plugged back.

What Exhibit Two represents is a vertical cross section of the way the well was actually drilled.

As you can see, it is a highly deviated well as opposed to a true horizontal well.

Q More, there'll be more detail gone into later as to why the well was drilled the way it was.

Q The next witness is a drilling engineer that actually conducted the drilling of the well and proposes to supervise the drilling of the other two wells?

A That is correct.

Q Turn to page 3 now, Mr. McCracken, and identify and describe the information on that exhibit page.

A Exhibit Number Three, and perhaps I should go back to Exhibit Number Two, Exhibit Number Two was presented during the original hearing to permit the highly deviated well.

Exhibit Number Three is a description of the actual conditions and the way the well was actually drilled and casing was actually set. Again, more detail will be gone into by our drilling engineer later.

Q Have you made a study of the production information that's available on the 404 Well, Mr. McCracken?

Α

Yes, I have.

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And is that information shown on page 4? Q

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Α Yes, it is.

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Q Would you review with Mr. Catanach the

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information on page 4 and describe for us what you conclude

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as a reservoir engineer based upon this information?

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Α On Exhibit Four there is a production showing the weekly rates that the 404 has made since curve being completed in December of 1987. The red curve represents the gas production. The blue curve represents the water production and the black curve represents the water cut in barrels per MMCF of gas.

What this shows is that the production from this well has steadily increased since it was first produced, which is fairly typical of a coal well, and what I conclude from this curve is that it is too early to tell when or what the peak rate on this well might be. As compared to other Fruitland coal wells in the 30 and 6 unit, this well makes approximately 2.5 to 2.6-million cubic feet a day. The average for the area is somewhat under 2.0 MMCF per day, so we can conclude from that that this well, productionwise, is a better well generally than wells in the area.

With that basis of Q information, have you then studied to determine whether or McCracken,

not Meridian ought to drill further horizontal pilot projects in the basin?

A Yes, I have.

Q Let me direct your attention now, sir, to the Sunray Well.

Page 5 is the first display for that well?

A Yes, it is.

Q Let's take a moment and have you describe horizontally what you propose to do with the drilling of that well?

A Exhibit Number Five shows the surface plat of Section 11, Township 30 North, Range 10 West. We propose to drill the well in the southwest quarter 660 from the south line, 270 feet from the west line for a surface location of said Section 11.

This is an unorthodox location which has previously been approved.

What we propose to do is to permit approximately a 30 degree window with the bottom hole location, as the exhibit shows, being within the orthodox location box in order to protect the correlative rights of the interest owners.

Q What is the significance of the dashed line running from the point where you commence drilling at

for the 404 Well, which was Order No. R-8526? Have you

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seen that?

A Yes, I have.

Q Have you proposed actual language that Mr. Catanach might utilize in the drafting of a similar type order for the Sunray Well?

A Yes, I have.

Q And where would he find that language?

A Exhibit Number Six.

Q What have you done with page 6 of Exhibit B?

A What we have done is specified the surface location as it is specified on the plat, Exhibit Number Five, specified the bottom hole locations represented by the wellbore ending at various points within the orthodox location box.

As you can see, if we went for an arc on this well, as far as approval, an arc may take us outside of that orthodox location box. We would like to stay in it, so depending on how close we're able to stay to our proposal of going right for the corner of the northeast orthodox location box, if we're deviated from that a few degrees from either side the well would be shorter to stay within that box.

The coordinates at the bottom of the application represent those end points which are drawn on

the plat, Exhibit Five.

Q All right. Does that conclude your presentation on the Sunray Well?

A Yes, it does.

Q Let's turn now to the tab on the 32 and 5 Well commencing at page 36.

A What page 36 shows is the same type of surface location plat. We have proposed this well to have a surface location of 1765 feet from the south line and 1485 feet from the west line of Section 23, Township 32 North, Range 6 West.

This is an orthodox surface location, and what the dashed line represents is that we propose to drill this well directly south with a radius of 1600 feet. The arc on either side, 30 degrees on either side, representing a total of 60 degrees, is again the window that we would like to have approved so that if we deviate slightly from the due south direction, we can -- we won't have to get another approval.

And again on page 37 we have styled an order which verbally expresses what is shown in the plat on page 36.

Q In summary, Mr. McCracken, what do you as a reservoir engineer seek to accomplish with the approval and drilling of these two horizontal wellbores?

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northeast corner of that box, an arc would take us outside

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1	A Yes, I was. I was the Project Engineer.							
2	Q And have you reviewed the orders and the							
3	transcripts and the testimony from that case?							
4	A Yes, I have.							
5	Q And have you prepared a drilling program							
6	for the Sunray Well and the 32 and 5 Well?							
7	A Project engineers under my direct super-							
8	vision have.							
9	Q And you have reviewed those drilling							
10	programs?							
11	A Yes, I have.							
12	MR. KELLAHIN: We tender Mr.							
13	Bent as an expert drilling engineer.							
14	MR. CATANACH; He is so qual-							
15	ified.							
16	Q Let me direct your attention, sir, to							
17	page number seven.							
18	Well, let's go back. Let's talk about							
19	the 404 Well, bring him up to date with where we are with							
20	that. Let's start with Exhibit Three.							
21	A Page number three is a cross-sectional							
22	of the actual wellbore on the 36 Unit No. 404.							
23	Q Let's take a moment and remind Mr. Cat-							
24	anach of what the Division authorized Meridian to do for							
25	the drilling of that well and then what you, in fact, did							

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do.

A The Division authorized the drilling of a high angle Fruitland coal well within a 90 degree arc east to south.

The direction was -- the window was given in order to allow Meridian Oil leeway in determining the optimum wellbore direction from an oriented course taken during the drilling of the vertical portion of the well.

The well was drilled vertically through the Fruitland coal, course taken in the coal, orientation determined. The well was logged, plugged back to a predetermined kickoff point. At that point we began building our curve at 12 degrees per 100 foot. We built our curve to an inclination of 83 degrees at which time we were at the top of the target zone. We ran 7-inch casing back to surface. We then drilled through the targeted Fruitland interval as seen on the montage map to a true vertical depth of 3036, giving us a lateral extension in the Fruitland coal of 557 feet.

Q What did the Commission or the Division authorize for a lateral extension?

A The (unclear) lateral extension as seen by the arc on page 1, was 1470 feet. This allowed for a

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And how does the operational aspects for the Sunray Well differ from the 404 Well? The 404 was permitted as a high angle Fruitland coal well, whereas the Sunray is considered a horizontal, a few degrees difference. Let's go now to the 32-5 Well and look a the drilling program for that well, and I think that starts Page 38, again, is a proposed cross sectional of the 32-5-E No. 100. Again the operational aspects are very similar. We will drill vertically through Fruitland coal, log the well, plug back to a predetermined kickoff point, build angle at 12 degrees per 100 till we reach an inclination of 89 degrees at the top of the Fruit-At that point we will drill through the Fruitland coal for a horizontal displacement in the coal And again page 39 is a verbal explana-Q Mr. Catanach, if he desires, can use the written narrative on 39 as the order portion of this order

> Α If he so desires.

to approve the drilling program for the well?

1	Q When do you propose to commence these							
2	wells, Mr. Bent?							
3	A We would like to begin drilling oper-							
4	ations on the 32-5 No. 100 by November 1st due to the							
5	limitations of the Big Game Use Area, as seen on page 36.							
6	Q 36, you're adjacent to the Navajo Lake.							
7	You're in a wildlife habitat area?							
8	A That's correct; also a Big Game Use							
9	Area which BLM has restrictions as far as activity is con-							
10	cerned. We have to begin construction or drilling prior to							
11	the December 1st deadline. We would like to start drilling							
12	approximately in November 1st.							
13	Q Do you have similar environmental con-							
14	straints on the Sunray Well?							
15	A No, there are not.							
16	Q Is that an area that the surface is sub-							
17	ject to winter hazards where you have access problems dur-							
18	ing the winter?							
19	A The 32-5 Well is; the Sunray not as							
20	much.							
21	Q And when do you propose to commence that							
22	well?							
23	A Immediately following the 32-5 Unit No.							
24	100.							
25	MR. KELLAHIN: That concludes							

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#### CROSS EXAMINATION

BY MR. CATANACH:

Q Mr. Bent, what kind of problems, if any, did Meridian have in drilling the 404 Well?

A Our only considered problem was the fact that we could not extend the wellbore in the Fruitland coal horizontally as far as we had initially planned. This was due to the unconsolidated nature of the coal as we drilled through it. We were not able to maintain our high angle approach due to the softness of the coal and we lost approximately 5 degrees inclination in a short period, which prevented us from reaching that maximum lateral extent. All efforts to regain that orientation directionally failed.

Other than that there were no operational problems.

Q You don't think you'll have the same kind of problems with the two proposed wells?

A At this time, no. Again, the Sunray Well appears to be a more consolidated coal, as does the 32-5.

MR. CATANACH: That's all I have of the witness. He may be excused.

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1 MR. KELLAHIN: Mr. Catanach, 2 our final witness is a landman for Meridian, Mr. David 3 Poage. 5 DAVID M. POAGE, 6 being called as a witness and being duly sworn upon his 7 oath, testified as follows, to-wit: 8 9 DIRECT EXAMINATION 10 BY MR. KELLAHIN: 11 Q Mr. Poage, would you please state your 12 name and occupation? 13 Α My name is David M. Poage and I work as 14 a Senior Staff Landman for Meridian Oil, Inc. 15 Mr. Poage, have you previously testified Q 16 as a landman before the Division? 17 I have not. Α 18 Would you take a moment and describe 19 what has been your educational background and employment 20 experience? 21 Α I graduated in 1972 from Western New 22 Mexico University with a Bachelor's degree in marketing 23 and graduated in 1973 with a Master of Arts degree in 24 business administration. 25 Went to work thereafter in 1973 for El

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of the 320 ownership

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orientation, whether it's west half or southwest -- south half, Meridian would have the 100 percent working interest owner (sic) in Section 11.

A That's correct.

Q And if we turn, then, to the 32 and 5 Well, and look at page 36, for example, what's the situation for that well?

A The situation would be identical there in that Meridian would be 100 percent owner on either 160-acre basis or 320-acre basis.

Q Let's go now to your particular involvement with the Sunray application, and I direct your attention to page number 9.

Would you identify the information on page 9?

A The exhibit on page 9 shows the spacing unit for the Sunray Well in the southwest quarter of Section 11, as well as the eight surrounding 160-acre spacing units.

The area colored in yellow is owned 100 percent by Meridian and operated by Meridian.

Q Describe what you have caused to occur when we look at the document on page 10.

A On page 10 it is just a matter of protection, we notified all of the overriding royalty interest

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									33	
1		Q	And	the	followi	.ng p	pages	21	through	35
2	are what, sir?									
3		А	They	are	copies	of th	ne cer	tif	ied retu	ırn
4	receipts	that were	sent	out w	vith all	thes	se let	ter	s.	
5		Q	Okay	. Le	et's tu	ırn to	the	32	and 5 We	ell
6	now, and start with page 40, if you will.									
7	What is shown on page 40?									
8		A	Page	40	is a p	olat s	showir	ng t	he prese	ent
9	outline	of this Sa	an Jua	an 32-	-5 Unit	and a	also s	spot	ted in t	the
10	southwest quarter of Section 23 is the proposed well.									
11		Q	What	type	of unit	is	this?			
12		A	This	is a	Federal	uni	t.			
13		Q	And	for w	what for	cmatio	ons is	s th	nis acrea	age
14	unitized?	ı								
15		A	For a	all fo	ormation	ns.				
16		Q	The	unit	ownersh	nip w	ill be	e th	ne same i	for
17	spacing u	nits that	surro	ound t	his spa	acing	unit?	?		
18		A	Yes,	sir.						
19		Q	Ident	tify	for us	s pag	ge 41,	, if	you wi	11,
20	please.									
21		A	Page	41	again	is a	a pla	at s	showing 4	the
22	160-acre	tract upon	n whic	ch the	e well i	is to	be lo	ocat	ed and t	the
23	8 surroun	ding 160-a	acre t	tracts	s.					
24			It a	again	in yel	llow,	color	ced	in yello	ow,
25	shows tha	t acreage	owne	d 100	percent	by I	Meridi	ian.		

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Q And identify the document on page 42. What have you caused to occur here?

A Page 42 is a copy of the letter sent to all the working interest owners in the San Juan 32-5 Unit notifying them of -- of the wells proposed to be drilled and the ownership, how they were going to be borne 100 percent by Meridian.

Q And page 43?

A 43, page 43, is a list of those working interest owners.

Q And then 44.

A Page 44 is a copy of the plat of development furnished to the regulatory bodies in compliance in compliance with the terms and provisions of the unit agreement.

 $$\operatorname{MR.}$$  KELLAHIN: That concludes my examination of Mr. Poage.

Just to check back, I believe Mr. McCracken misspoke awhile ago when he said the Sunray Well's current surface location had been approved. In fact it has not been approved.

What he was confused about is the original location for the well was a standard location and that had been approved, or was subject to approval.

We thereafter move the surface

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    questions we have of the witness. He may be excused.
 2
                                   Is there anything further in
 3
     9498 or 9499?
                                   MR. KELLAHIN: No, sir.
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                                   MR. CATANACH:
                                                    If not, they
 6
    will be taken under advisement.
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                         (Hearing concluded.)
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# CERTIFICATE

I, SALLY W. BOYD, C. S. R. DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division (Commission) was reported by me; that the said transcript is a full, true and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSP

I do hereby cerify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. That heard by me on Attack B. 19 Fr.

Oil Conservation Division

, Examiner