

NEW MEXICO OIL CONSERVATION COMMISSION
EXAMINER HEARING
SANTA FE, NEW MEXICO
DECEMBER 17, 1992 -- 8:15 A.M.

| NAME | REPRESENTING | LOCATION |
|----------------|--|----------|
| Brent May | Yates Pet. | Artesia |
| Randall Huns | Academy Oil & Gas | Caliche |
| Bill Hardie | Conoco | Midland |
| Jerry Hoover | Conoco | Midland |
| N. Kelbick | Kelbick & Kelbick | Santa Fe |
| DAVE BONEAU | YATES PETROLEUM | ARTESIA |
| Joel Carson | ^(Chas & Carson) C.W. Trainer | Artesia |
| Jack Ahlen | CW Trainer | Roswell |
| Bryce Stubbs | C.W. TRAINER | Roswell |
| Robert Bullard | Yates Pet. | Artesia |
| William L. Jan | Campbell, Jan & Jan | Santa Fe |
| CW Trainer | CW Trainer | Artesia |
| DEXTER HARMON | MEWBOURNE OIL | MIDLAND |
| Paul Harden | Newbourne | " |
| Joby Rhodes | Yates Drilling Co. | Artesia |

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SANTA FE, NEW MEXICO
DECEMBER 17, 1992 -- 8:15 A.M.

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|--------------------|----------------------------|----------------|
| Maurice Trimmer | Byron Co | SF |
| Rick WYMER | BLM | SF |
| James Bruce | Hinkle Law Firm | SF |
| AL GREER | BETSEW - TONTON - GREEK | POIN |
| Douglas W. Hulbert | Yates Drilling Co. | Alameda, NM |
| Ernie Busch | NMACO | 43+00 |
| Robert Bullard | Yates | Alameda |
| DARRELL ROBERTS | SANTA FE ENERGY RES. | MIDLAND, TEXAS |
| Gary Green | " " " " | " " |
| Gene Davis | " " " " | " " |
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NEW MEXICO OIL CONSERVATION DIVISION

STATE LAND OFFICE BUILDING

STATE OF NEW MEXICO

CASE NO. 10631

IN THE MATTER OF:

The Application of Meridian Oil Inc.,
for Unorthodox Coal Gas Well Location,
San Juan County, New Mexico.

BEFORE:

MICHAEL E. STOGNER

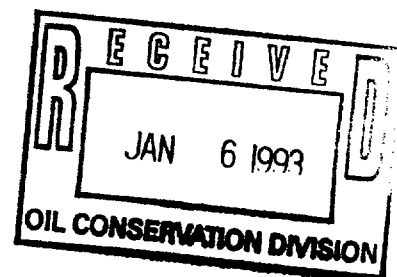
Hearing Examiner

State Land Office Building

December 17, 1992

REPORTED BY:

CARLA DIANE RODRIGUEZ
Certified Court Reporter
for the State of New Mexico

**ORIGINAL**

A P P E A R A N C E S

FOR THE NEW MEXICO OIL CONSERVATION DIVISION:

ROBERT G. STOVALL, ESQ.

General Counsel
State Land Office Building
Santa Fe, New Mexico 87504

FOR THE APPLICANT:

KELLAHIN and KELLAHIN
Post Office Box 2265
Santa Fe, New Mexico 87504-2265
BY: **W. THOMAS KELLAHIN, ESQ.**

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1 EXAMINER STOGNER: I'll call the next
2 case, No. 10631.

3 MR. STOVALL: Application of Meridian
4 Oil, Inc., for an unorthodox oil well location,
5 San Juan County, New Mexico.

6 EXAMINER STOGNER: Call for
7 appearances.

8 MR. KELLAHIN: Mr. Examiner, I'm Tom
9 Kellahin of the Santa Fe law firm of Kellahin and
10 Kellahin, appearing on behalf of the Applicant.
11 I have three witnesses to be sworn.

12 EXAMINER STOGNER: Are there any other
13 appearances in this matter?

14 Will the witnesses please stand to be
15 sworn.

16 [The witnesses were duly sworn.]

17 EXAMINER STOGNER: You may proceed.

18 MR. KELLAHIN: I would like to call
19 Alan Alexander at this time.

20 ALAN ALEXANDER

21 Having been first duly sworn upon his oath, was
22 examined and testified as follows:

23 EXAMINATION

24 BY MR. KELLAHIN:

25 Q. Mr. Alexander, for the record would you

1 please state your name and occupation?

2 A. Yes. My name is Alan Alexander. I'm
3 currently employed with Meridian Oil, Inc., in
4 their Farmington, New Mexico office, as a senior
5 land advisor.

6 Q. Mr. Alexander, pursuant to your
7 employment as a petroleum landman, are you
8 familiar with the land title ownership
9 arrangements that may affect this particular
10 well?

11 A. Yes, sir, I am.

12 Q. Are you also familiar with the
13 offsetting operators in this particular area?

14 A. Yes, sir.

15 MR. KELLAHIN: We tender Mr. Alexander
16 as an expert petroleum landman.

17 EXAMINER STOGNER: Mr. Alexander is so
18 qualified.

19 Q. Mr. Alexander, let me have you turn,
20 sir, to Exhibit No. 1, and identify what's shown
21 in the exhibit book at that point in the package.

22 A. Exhibit No. 1 consists of our
23 application to the Division to drill our Johnston
24 Federal #15R well, at an off-pattern location in
25 the northeast quarter of Section 35 of 31 North,

1 9 West, and replace the existing Johnston Federal
2 No. 15 well that is also located in that same
3 quarter section.

4 Q. As part of your research, Mr.
5 Alexander, have you found any Division approvals
6 for the original well that was drilled in the
7 off-pattern location in the northwest quarter of
8 this section?

9 A. Yes, sir. We found an administrative
10 order NSL-2643 that was granted to Union Texas
11 Petroleum Corporation under a letter dated March
12 29, 1989.

13 Q. What is the current status of the
14 Johnston Federal 15 well?

15 A. Currently, I believe that well is shut
16 in.

17 Q. And Meridian seeks now to replace that
18 well with another well to be attempted in the
19 Basin Fruitland Coal gas pool?

20 A. Yes, sir, that's correct.

21 Q. And to be located in the same
22 off-pattern, 160 acres of the spacing unit?

23 A. Yes, sir, that's correct.

24 Q. What is the proposed spacing unit for
25 the well?

1 A. The proposed spacing unit for the well
2 consists of the east half of Section 35, of 31
3 North, 9 West.

4 Q. It will be a stand-up west half spacing
5 unit?

6 A. Yes, sir.

7 Q. Let's turn to the information behind
8 Exhibit Tab 2 and identify that for us.

9 A. Behind Exhibit 2 we have an offset
10 owner operator plat which shows the offset
11 operators. That consists of Meridian Oil, Inc.
12 and Amoco Production Company.

13 Q. Have you caused notification to be sent
14 to Amoco Production Company pursuant to Division
15 notice rules?

16 A. Yes, sir.

17 Q. Have you received any objection from
18 Amoco with regards to this application?

19 A. No, sir, we have not.

20 Q. The proposed footage location for the
21 Johnston Federal #15R is as indicated on this
22 display?

23 A. Yes, sir, that's correct.

24 Q. What is that status of the approval of
25 the use of the surface at this location for the

1 well?

2 A. We have an approved location for this
3 well.

4 Q. The exhibit package includes a copy of
5 the administrative NSL approval of the original
6 well, does it not, Mr. Alexander?

7 A. Yes, sir, it does. It's with the
8 application, the second page in the back of the
9 application.

10 Q. Marked as Exhibit C?

11 A. Yes, sir.

12 MR. KELLAHIN: That concludes my
13 examination of Mr. Alexander. We move the
14 introduction of Exhibits 1 and 2.

15 EXAMINER STOGNER: Exhibits 1 and 2
16 will be admitted into evidence.

17 EXAMINATION

18 BY EXAMINER STOGNER:

19 Q. NSL-2643 that approved the Federal #15,
20 did it also authorize the west half dedication
21 that you're essentially seeking for the
22 replacement well today?

23 A. Yes, sir, it did.

24 Q. Okay. When I look at your offset
25 acreage plat and I show Amoco to the west and

1 Meridian back to the east, the Meridian acreage
2 to the northeast and south, was that all acquired
3 from Union Texas at the same time that this
4 particular acreage was, or is that older
5 Meridian?

6 A. No, sir, most of this acreage was
7 acquired from Union Texas.

8 EXAMINER STOGNER: I have no other
9 questions of Mr. Alexander. He may be excused.

10 Mr. Kellahin.

11 MR. KELLAHIN: Call at this time Mr.
12 Jim Falconi.

13 JAMES D. FALCONI

14 Having been first duly sworn upon his oath, was
15 examined and testified as follows:

16 EXAMINATION

17 BY MR. KELLAHIN:

18 Q. Mr. Falconi, would you please state
19 your name and occupation?

20 A. Yes. My name is Jim Falconi. I'm a
21 senior reservoir engineer for Meridian Oil, Inc.,
22 in Farmington, New Mexico.

23 Q. On prior occasions have you testified
24 as a petroleum engineer before the Division?

25 A. Yes, I have.

1 Q. Your last testimony was before Examiner
2 Stogner back in November with regards to two
3 off-pattern wells, the Johnston 270 and the
4 Johnston 280?

5 A. That's correct.

6 Q. Pursuant to your employment by Meridian
7 as a petroleum engineer, have you made a study of
8 the engineering information upon which a decision
9 was made to replace the Johnston Federal 15 well?

10 A. That is correct.

11 Q. Have you participated in the decision
12 that has picked a location for the replacement
13 well?

14 A. Yes, I was involved.

15 MR. KELLAHIN: We tender Mr. Falconi as
16 an expert petroleum engineer.

17 EXAMINER STOGNER: Mr. Falconi is so
18 qualified.

19 Q. Let me have you turn, Mr. Falconi, to
20 the first display shown after Exhibit tab No. 3.
21 Take a moment, sir, and help us understand the
22 display and give us some information about the
23 kinds of wells that are located in this area?

24 A. Okay. The exhibit shown as Exhibit 3
25 is a nine-section plat showing the wells in the

1 nine section, all wells, Mesaverde, Pictured
2 Cliffs, Dakota and Basin Fruitland Coal wells.

3 This area was developed in the Basin
4 Fruitland Coal in the late 80s and early 90s.
5 Most of the wells in the area were developed
6 either open hole or cased hole. The wells that
7 were developed cased hole, many of those wells
8 have been redrilled or sidetracked to an open
9 hole type completion.

10 The Johnston Federal #15R well that
11 we're proposing to drill in the northwest, is
12 located in the northwest quarter of Section 35,
13 Township 31 North, Range 9 West.

14 Q. Is this display current so that it
15 shows all the wells that are being drilled or
16 completed in the Fruitland Coal Pool?

17 A. Yes, it is.

18 Q. And that symbol is a triangle with a
19 gas symbol in it?

20 A. Yes, that's correct.

21 Q. Let's turn to Exhibit 4 at this time
22 and have you identify the display shown behind
23 that exhibit tab.

24 A. Okay. What Exhibit 4 shows is all the
25 wells in the Basin Fruitland Coal pool. There's

1 a line on there marked A - A'. That's a
2 cross-section line that will be talked about by
3 our geologist.

4 The numbers underneath the well symbols
5 indicate gas in place in Bcf and the current
6 producing rates of the wells in the nine section
7 in Mcf per day.

8 Q. Each of the coal gas symbols, the first
9 number is the original gas in place and below
10 that is the current rate?

11 A. That is correct.

12 Q. Let's use this display to discuss the
13 conclusions you have reached about the
14 replacement well and its location. Give us an
15 overview and understanding, Mr. Falconi, of the
16 reasons that have caused you and Meridian to come
17 to the conclusion that you want to, first of all,
18 replace the #15 well.

19 A. Okay. Meridian acquired this acreage
20 from Union Texas Petroleum, and we undertook a
21 study to look at the production rates from all
22 the Basin Fruitland Coal wells in the area. It
23 was obvious that the two wells in that section,
24 both the #15 located in the northwest of Section
25 35, and the #23, located in the southeast of

1 Section 35, were producing way below the
2 offsetting rates.

3 The reason we determined for that was
4 both these wells were cased and fracture
5 stimulated. We elected to do something to the
6 wells to increase their productivity. The #23
7 well, we were able to go in in December of this
8 year and sidetrack that well and bypass the cased
9 and fracture-stimulated area, go back into the
10 Fruitland Coal and complete the well open hole.

11 Q. The numbers below the 23 well, do those
12 represent the current rate of the well after it
13 was recompleted?

14 A. That is correct. That's marked as a
15 Pito gauge, 2.2 million a day.

16 Q. What does that mean?

17 A. That Pito gauge is indicative of the
18 production capability of the well. Normally,
19 what we find is that the wells, when we turn them
20 on and produce them down the line, will produce
21 at about 40 or 50 percent of the Pito rate. So
22 we would expect this well to produce in the
23 neighborhood of 1,000 to 1,100 Mcf per day.

24 Q. Let's go back to the original 15 well.
25 You don't have rates on that. Tell me about that

1 well.

2 A. The #15 well, like I indicated, was
3 originally a Pictured Cliffs well. Union Texas
4 plugged the well back to the Fruitland Coal and
5 completed the Fruitland Coal interval using cased
6 and fracture-stimulated techniques. The
7 production of the well has been extremely low.
8 We've elected to shut the well in pending--

9 Q. What kinds of rates?

10 A. The current rate is zero. We have the
11 well shut in. Peak rates on the well were in the
12 neighborhood of 100 to 150 a day with large
13 volumes of water.

14 We reviewed the well and we elected to
15 redrill the well simply because the mechanical
16 configuration of the well hole will not allow us
17 to sidetrack.

18 Q. You can't do to the 15 what you were
19 able to successfully accomplish with the 23?

20 A. That's correct.

21 Q. Why have you chosen to move to the
22 south and west of the 15 for the replacement
23 well, as opposed to somewhere else in the spacing
24 unit?

25 A. Say the question again.

1 Q. Sure. You've moved slightly to the
2 south and west of the 15 for the replacement
3 well?

4 A. That's correct.

5 Q. Why have you chosen that location
6 within the west half spacing unit for the
7 replacement well?

8 A. We looked where we could stake the well
9 up in the northwest quarter offsetting the #15
10 well. The #15 well is offset by an existing
11 Mesaverde well. This was the most reasonable
12 topographic location up in the northwest quarter
13 of the section.

14 Q. Were there reservoir elements or
15 criteria that helped you determine the optimum
16 location for the replacement well?

17 A. No. The geologist will talk about the
18 cross-section that he ran through there. There
19 are no geologic or reservoir parameters as such
20 that would make us choose that particular
21 location up in the northwest.

22 Q. Comparing the northwest to the
23 southwest, then, why have you chosen to stay in
24 the northwest quarter as opposed to now putting
25 it back in an on-pattern situation?

1 A. We elected to stay in the northwest
2 because the off-pattern drilling of the wells in
3 both Sections 35, Section 2 to the south and
4 Section 3 to the south, are already established
5 off-pattern. Most of those wells were drilled
6 prior to the 1988 Basin Fruitland Coal pool
7 rules.

8 Q. I know this display doesn't show it,
9 but if you go back to the exhibit behind Exhibit
10 tab No. 3, there's a Mesaverde Well #6 located in
11 the southwest quarter of 35. Is there any
12 information from that well that caused you to
13 conclude that the replacement well should not be
14 in close proximity to the #6 Mesaverde well?

15 A. I reviewed the Mesaverde wells in
16 Section 35. The #6 well was drilled in 1952, a
17 Mesaverde well. When they were drilling that
18 well through the Fruitland Coal interval it blew
19 out on them and they were not able to control
20 it. They continued to drill the well to an
21 intermediate casing point about 500 or 600 feet
22 below the Fruitland Coal interval.

23 TD'd the well with the well still
24 blowing out, and attempted to kill the well with
25 mud. They spent about 24 hours attempting to

1 kill the well with mud and were unsuccessful in
2 doing that. So they elected to kill the well by
3 cementing the intermediate casing string in that
4 well in the hole.

5 They pumped their cement job while the
6 well was flowing and successfully cemented the
7 bottom of the casing. However, cement that was
8 circulating up the back side may have gone into
9 the Fruitland Coal interval with bridging on the
10 back side while the well was flowing. The
11 drilling records and the information in the file
12 from 1952 are hard to interpret and conclusively
13 say that that happened, but there are indications
14 that cement damage may have occurred to the
15 Fruitland Coal interval.

16 Q. Give us a summary of how you have made
17 the calculations of the original gas in place
18 that applied to each of the spacing units for the
19 coal gas wells.

20 A. Okay. On Exhibit No. 4, the top number
21 is the gas in place in Bcf, and that was
22 calculated from desorption and thickness data.

23 Q. Have you used the same parameters in
24 making the calculations for each of the spacing
25 units for the original gas in place?

1 A. Yes, we have.

2 Q. What have you determined to be the
3 original gas in place for the west half of 35?

4 A. For the west half of 35 we have 16.4
5 Bcf.

6 Q. In order to afford the owners of that
7 spacing unit the opportunity to have their share
8 of the recoverable gas in the pool, what is your
9 conclusion about the optimum place to place the
10 replacement well?

11 A. Our conclusion is that we need to
12 redrill the #15 well because of mechanical
13 conditions of the #15, and also complete, using
14 an open hole technique, to recover the reserves
15 in the west half of the section.

16 Q. In the prior cases in November, the
17 Examiner may remember that the criteria used for
18 certain of the off-pattern wells was an effort to
19 get into a location that had better permeability
20 based upon a number of methods of analysis of
21 that particular area. Is that the type of case
22 we're seeing here with the #15R?

23 A. It is, to a certain degree. However,
24 all the offsetting wells have had kicks in the
25 Fruitland Coal interval and are all producing at

1 extremely high rates, and we feel it's prudent to
2 protect our drill block and protect our
3 correlative rights by redrilling the #15.

4 MR. KELLAHIN: That concludes my
5 examination of Mr. Falconi. We would move the
6 introduction of his Exhibits 3 and 4.

7 EXAMINER STOGNER: Exhibits 3 and 4
8 will be admitted had into evidence. I have no
9 questions of Mr. Falconi at this time.

10 Mr. Stovall?

11 MR. STOVALL: No questions.

12 EXAMINER STOGNER: You may be excused.

13 Mr. Kellahin.

14 MR. KELLAHIN: Call Mr. Jennings.

15 GREGORY L. JENNINGS

16 Having been first duly sworn upon his oath, was
17 examined and testified as follows:

18 EXAMINATION

19 BY MR. KELLAHIN:

20 Q. Mr. Jennings, would you please state
21 your name and occupation?

22 A. My name is Gregory L. Jennings. I'm a
23 senior geologist with Meridian Oil Inc., located
24 in Farmington, New Mexico.

25 Q. Mr. Jennings, on prior occasions have

1 you testified and been qualified as an expert
2 petroleum geologist before the Division?

3 A. Yes, I have.

4 Q. And you last testified before Examiner
5 Stogner back in November, with regards to
6 Meridian's application in the Johnston 270 and
7 the 280 wells?

8 A. That's correct.

9 Q. Pursuant to your employment, have you
10 continued to make geologic studies and, in
11 conjunction with Mr. Falconi's engineering work,
12 made recommendations to manegment about where to
13 drill replacement wells with regards to Fruitland
14 Coal gas wells?

15 A. Yes, I have.

16 Q. Have you made that recommendation with
17 regards to the Johnston Federal #15R well?

18 A. Yes.

19 MR. KELLAHIN: We tender Mr. Jennings
20 as an expert petroleum geologist.

21 EXAMINER STOGNER: Mr. Jennings is so
22 qualified.

23 Q. What is your recommendation with
24 regards to your geologic interpretations, Mr.
25 Jennings, about the replacement of the Johnston

1 15 well with another well in that spacing unit?

2 A. Our recommendation is to redrill the
3 well in the northwest quarter of Section 35,
4 complete an open hole in the Fruitland Coal
5 interval, and allow us to recover our share of
6 the reserves in the west half of the spacing
7 unit.

8 Q. Let me ask you, sir, if you have
9 prepared an isopach of this particular area that
10 will show the coal reservoir?

11 A. Yes, I have. That would be Exhibit No.
12 5.

13 Q. Identify and describe that display for
14 us.

15 A. Exhibit No. 5 is an isopach of the
16 total thickness for the Fruitland Coal. It
17 actually shows both wells--both cases that we're
18 here today for, but in the northwest part of the
19 map you see the Johnston Federal #15R located
20 with a star.

21 Essentially, thicknesses range from 40
22 feet up to 60 feet in the area of the drill site;
23 however, as we've discussed in some previous
24 hearings, the minor variations in thickness are
25 not correlating to any of the variations in

1 production.

2 Q. When you're looking at coal thickness
3 in the west half of 35, is the replacement
4 location, the 15R location, the optimum location
5 within that spacing unit?

6 A. Yes, it is.

7 Q. You are located at least within close
8 proximity to the, is it, 45-foot contour line?

9 A. That's correct.

10 Q. Between 40 and 45 feet of thickness?

11 A. Right.

12 Q. In determining the optimum location
13 geologically within the spacing unit for a coal
14 gas well, have you also looked at structure?

15 A. Yes, I have.

16 Q. Let's turn to Exhibit No. 6, and I
17 would ask you to identify and describe the
18 structure.

19 A. Exhibit No. 6 is a structure map on the
20 base of the Fruitland Coal, contour interval of
21 20 feet. It essentially shows a regional dip to
22 the northeast. No large structural anomalies
23 that would enhance fracturing or permeability.
24 Very typical for all of these Fruitland Coal
25 cases. The structural picture shows no faulting

1 or anticlinal flexures that are significant and
2 would affect the geology.

3 Q. When you look at the geology around the
4 original well, the Johnston Federal 15, do you
5 see any geologic reason that that well was such a
6 poor producer?

7 A. No. In fact, we think if they would
8 have drilled that well open hole, they would have
9 made a similar producer as the offsetting wells.

10 Q. Let's turn to the cross-section and
11 have you briefly identify and describe the
12 cross-section, which is Exhibit No. 7?

13 A. Right. The cross-section A to A',
14 which you have in front of you, is pretty
15 straightforward. It's a four-well cross-section
16 running north/south. Starting from the south
17 we've got an open hole completion in the
18 Fruitland Coal producing approximately 1.1
19 million a day. That's in Section 2.

20 Then you run up through Section 35,
21 where we have the two Johnston Federal wells that
22 Meridian acquired from Union Texas. It is
23 interesting to point out, the Johnston Federal
24 #23 in the southeast quarter is the well that we
25 discussed earlier that originally was a very poor

1 producer due to it's cased hole completion, and
2 we promised you that we would give you data as we
3 got it. And we just sidetracked this well, what,
4 about a week ago? and had a successful result
5 with a Pito gauge to the atmosphere of 2.2
6 million.

7 And that's essentially what we're
8 trying to do with the #15, except we'll have to
9 redrill it because of mechanical reasons.

10 As you can see, we have five basic coal
11 packages that are present in all four of these
12 wells. The very good correlations in the coal
13 zones continue right up to the north to the well
14 in Section 26 that is producing approximately 3.3
15 million a day. Very similar situation to some of
16 these previous cases that we've looked at.

17 The coal zones are continuous, very
18 correlatable. Nothing on wire line logs that
19 helps us to determine where a particular location
20 is more permeable than another. In fact, we feel
21 that this whole area is fairly commercial. You
22 do see production increasing to the north and, in
23 fact, we're offset by some pretty big producing
24 wells.

25 The west half of Section 35 is offset

1 by some pretty big producing wells, but you can't
2 see any changes in the wire line logs or in the
3 mud logs. Essentially it's a permeability issue,
4 and it's just like all the cases that we've
5 looked at in recent weeks.

6 Q. Why wouldn't you drill the southwest
7 quarter and put the well back on pattern then?

8 A. Well, two primary reasons. One, the
9 location that is staked and that we're proposing
10 here today is actually better, consistent with
11 the existing pattern that is in the area. I
12 think the section to the north and the south and
13 the three immediate sections offsetting Section
14 35 are off-pattern.

15 Secondly, because we do see an apparent
16 permeability increase to the north and increasing
17 production, therefore increasing drainage of the
18 west half of Section 35, we feel that the
19 location of the northwest of 35 is better
20 positioned to protect the correlative rights of
21 that spacing unit and to establish commercial
22 production.

23 MR. KELLAHIN: That concludes my
24 examination of Mr. Jennings. We move the
25 introduction of Exhibits 1 through 8.

1 Exhibit 8, Mr. Examiner, is our
2 certificate of mailing to Amoco, as the only
3 offsetting operator.

4 EXAMINER STOGNER: The remainder of the
5 exhibits will be admitted into evidence at this
6 time.

7 EXAMINATION

8 BY EXAMINER STOGNER:

9 Q. Mr. Jennings, when I look at your
10 cross-section and the well to the north, the open
11 hole completion--

12 A. Right.

13 Q. --have you made a determination or do a
14 spinner survey or other means of which particular
15 coal seam in particular in this area may be
16 attributing the majority of the coal gas
17 production, or are they equal, or do you have any
18 opinion?

19 A. That's a good question. My boss asks
20 me that all the time. I would say from regional
21 experience, the basal coal is the primary zone.
22 However, it doesn't appear to be the case on this
23 well.

24 One way that you can tell when you look
25 at these mud logs, if the mud logger recorded

1 where the well kicked and what the flare was
2 during the individual zones, then that will give
3 you a good, solid clue. Unfortunately, these
4 things encounter so much gas that they saturate
5 the gas detection units as soon as they drill
6 into even a minor producer. And so you look at
7 the gas curve and it really isn't that helpful.

8 And I don't believe they've reported
9 kicks or flares on this one, but I will say
10 this. If you looked on the Johnston Federal No.
11 15 on the cross-section, there's a little note
12 that says "kick" with a couple of little Xs.
13 Right below that, in the middle of the coal
14 package, that indicates that the upper coal
15 kicked as they drilled that well, and so my
16 interpretation would be that all of the coals in
17 here have productive potential, but based on
18 regional experience the basal coal would still be
19 the big producer.

20 EXAMINER STOGNER: Any other questions
21 of Mr. Jennings?

22 MR. STOVALL: Just one.

23 EXAMINATION

24 BY MR. STOVALL:

25 Q. This is not like your other off-pattern

1 cases that you've had here where it's due to that
2 transitional zone, is that correct?

3 A. That's correct. We feel that this area
4 is all productive. There is a permeability
5 variation to the north and there is better
6 production to the north, so there's a little bit
7 of that element in here as well. Basically we're
8 simply redrilling a well that was cased and
9 frac'd and not stimulated properly.

10 EXAMINER STOGNER: Any other
11 questions?

12 MR. STOVALL: No.

13 EXAMINER STOGNER: Mr. Jennings may be
14 excused.

15 Mr. Kellahin, anything further?

16 MR. KELLAHIN: That concludes our
17 presentation in this case.

18 EXAMINER STOGNER: Does anyone else
19 have anything further in Case 10631? If not,
20 this case will be taken under advisement.

21 (And the proceedings concluded.)

22

23

24

25

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 10631,
heard by me on 10/3/92.

 , Examiner
Oil Conservation Division

CERTIFICATE OF REPORTER

STATE OF NEW MEXICO)
) ss.
COUNTY OF SANTA FE)

I, Carla Diane Rodriguez, 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 caused my notes to be transcribed
under my personal supervision; 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 December 23,
1992.


CARLA DIANE RODRIGUEZ, RPA
CCR No. 4