1	STATE OF NEW MEXICO
2	ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
3	OIL CONSERVATION DIVISION
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7	EXAMINER HEARING
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9	IN THE MATTER OF:
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11	Application of Yates Petroleum Case 9770
12	Corporation for an unorthodox
13	gas well location, Eddy County,
14	New Mexico
15	
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17	TRANSCRIPT OF PROCEEDINGS
18	
19	BEFORE: MICHAEL E. STOGNER, EXAMINER
20	
21	STATE LAND OFFICE BUILDING
22	SANTA FE, NEW MEXICO
23	October 4, 1989
24	
25	ORIGINAL

CUMBRE COURT REPORTING (505) 984-2244

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1	I N D E X
2	Page Number
3	
4	Appearances 2
5	
6	Witnesses:
7	
8	RAY BECK
9	Divoct Buominotics has May Man Man A
10	Direct Examination by Mr. Vandiver 4
11	Certificate of Reporter 11 E X H I B I T S
12	E X H I B I T S Page Identified
13	Applicant's Exhibit 1 Applicant's Exhibit 2 6
14	Applicant's Exhibit 3 Applicant's Exhibit 4 8
15	Applicant's Exhibit 5
16	
17	
18	
19	
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CUMBRE COURT REPORTING (505) 984-2244

- 1 HEARING EXAMINER: We will call case No.
- 2 9770.
- 3 MR. STOVALL: Application of Yates
- 4 Petroleum Corporation for an unorthodox gas well
- 5 location, Eddy County, New Mexico.
- 6 HEARING EXAMINER: At this time I'll call
- 7 for appearances.
- MR. VANDIVER: Mr. Examiner, I'm David R.
- 9 Vandiver of the firm of Fisk & Vandiver, Artesia, New
- 10 Mexico, and I'm appearing on behalf of the Applicant.
- 11 I have one witness to be sworn.
- 12 HEARING EXAMINER: Are there any other
- 13 appearances in this case?
- In that case, will the witness please stand
- 15 and be sworn?
- RAY BECK,
- 17 the witness herein, after having been first duly sworn
- 18 upon his oath, was examined and testified as follows:
- 19 DIRECT EXAMINATION
- 20 BY MR. VANDIVER:
- 21 Q. Mr. Beck, state your name, your occupation,
- 22 and by whom you are employed.
- A. My name is Ray Beck. I'm employed by Yates
- 24 Petroleum Corporation in Artesia, New Mexico, as a
- 25 petroleum geologist.

- 1 Q. Mr. Beck, you have previously testified on
- 2 numerous occasions before the Oil Conservation
- 3 Division and had your qualifications as a petroleum
- 4 deologist accepted, and your qualifications are a
- 5 matter of record, are they not?
- 6 A. That's true.
- 7 Q. Mr. Beck, have you made a study of the
- 8 available geological data in the area surrounding
- 9 Yates Petroleum Corporation's application in Case No.
- 10 9770, and are you familiar with the application?
- 11 A. Yes, I am.
- MR. VANDIVER: Mr. Examiner, I tender Mr.
- 13 Beck as an expert petroleum geologist.
- 14 HEARING EXAMINER: Mr. Beck is so
- 15 gualified.
- 16 Q. (BY MR. VANDIVER) Mr. Beck, what is the
- 17 purpose of Yates Petroleum Corporation's application
- 18 in Case No. 9770?
- 19 A. In Case 9770, Yates Petroleum requests
- 20 approval of an unorthodox gas well location for its
- 21 Saguaro "AGS" Federal Com Well No. 1 to be drilled
- 22 1980 feet from the south line and 660 feet from the
- 23 west line of Section 11, Township 20 South, Range 24
- 24 East, Eddy County. The south half of Section 11 will
- 25 be dedicated to the well.

- 1 The necessity for this nonstandard location
- 2 is based upon geologic conditions prevailing in the
- 3 primary objective Morrow Classics formation.
- 4 Q. Mr. Beck, if I could refer you to
- 5 Applicant's Exhibit No. 1 and ask you to describe what
- 6 : that is, please.
- 7 A. Exhibit No. 1 is a land plat. The proposed
- 8 location is a red spot. The south half proration unit
- 9 is outlined in red. Solid yellow color denotes a 100
- 10 percent Yates lease, and yellow-outlined tracts means
- 11 Yates has a partial interest in the lease. Purple
- 12 color denotes a Yates mineral interest.
- 13 Q. If I could refer you to Applicant's Exhibit
- 14 No. 2 and ask you to describe what information is
- 15 contained on that exhibit.
- 16 A. Exhibit No. 2 is a combined isopach and
- 17 structural map. The dotted contours show regional
- 18 southeast dip of about 200 feet-per-mile on the top of
- 19 the Morrow Classics interval. The solid contours are
- 20 isopach contours showing the varying thickness of the
- 21 Morrow Classics interval in the area of interest. The
- 22 contour interval is 20 feet.
- 23 Experience in northern Eddy County has
- 24 shown that wells located within or along the flanks of
- 25 Morrow Classics thicks have a much better chance of

- 1 encountering more and thicker Morrow channel sand
- 2 bodies which, if not water bearing, are capable of
- 3 producing better-than-average economic volumes of
- 4 gas.
- A good example is the recently drilled
- 6 Yates Conoco well in the north half of Section 11 of
- 7 20 South, 24 East, which encountered 131 feet of
- 8 Morrow Classics on the east flank of the thick,
- 9 running from northeast to southwest in Section 10.
- 10 This well was completed naturally and is currently
- ll producing 4.3 million cubic feet a day into the
- 12 pipeline from a 26-foot Morrow channel sandstone.
- 13 According to the present interpretation of
- 14 the data, a well drilled at the proposed unorthodox
- 15 location should encounter about 160 feet in the Morrow
- 16 Classics, or 29 feet more than the excellent Yates
- 17 Conoco well in the north half. It should be on the
- 18 same east flank of the Morrow Classics thick, and
- 19 should encounter one or more good reservoir sands
- 20 about 25 feet up dip of the Yates Conoco well.
- 21 Q. Mr. Beck, if I could refer you to what's
- 22 been marked for identification as Applicant's Exhibit
- 23 No. 3 and ask you to describe what information is
- 24 contained in that exhibit.
- 25 A. Exhibit No. 3 is an isolith map with

CUMBRE COURT REPORTING (505) 984-2244

- 1 10-foot contours, showing a varying thickness of the
- 2 total clean Morrow sand in this area. By comparing
- 3 this map with the previous map, one can see that
- 4 greater amounts of Morrow sand are found where the
- 5 Morrow Classics interval is thicker.
- 6 According to Exhibit 3, this isolith map,
- 7 one may observe that any standard location will
- 8 encounter significantly less sand than the proposed
- 9 nonstandard location.
- The proposed unorthodox location should
- 11 encounter approximately 30 feet of Morrow sand, which
- 12 is about the same amount of sand as was found in the
- 13 Yates Conoco well in the north half of Section 11, and
- 14 which appears to be an excellent Morrow gas well.
- 15 Also, please note the trace of
- 16 cross-section A-A Prime, the next exhibit.
- 17 Q. All right, then, if I could refer you to
- 18 Applicant's Exhibit No. 4, the cross-section, and ask
- 19 you to identify that and describe what information is
- 20 contained therein.
- 21 A. Exhibit No. 4 is cross-section A-A Prime.
- 22 It is a stratigraphic cross-section hung on the Morrow
- 23 Classics and trends more or less perpendicularly to
- 24 the Morrow Classics thick shown on Exhibit No. 2.
- The cross-section shows the pertinent

- 1 correlations and the interval mapped on Exhibit No.
- 2 2. The cross-section also shows the manner in which
- 3 the sand was encountered for the isolith map of
- 4 Exhibit No. 3 by the yellow coloring on the left side
- 5 of each open hole well log.
- The cross-section illustrates that the
- 7 proposed location should encounter Morrow sand on the
- 8 east flank of the Morrow Classics thick.
- 9 Q. Anything else with regard to Exhibit 4?
- 10 A. Nothing with regard to Exhibit 4.
- 11 MR. VANDIVER: Mr. Examiner, Applicant's
- 12 Exhibit No. 5 is an affidavit of a mailing prepared by
- 13 my office, reflecting notice in accordance with Rule
- 14 1207 to the parties entitled to receive notice in this
- 15 case.
- 16 Q. Mr. Beck, were Exhibits 1 through 4
- 17 prepared by you or under your direction and control?
- 18 A. Yes, they were.
- 19 Q. In your opinion, is the proposed location
- 20 the best allowable location for a Morrow well on the
- 21 south half of Section 11?
- A. Yes, it is true, we believe it is
- 23 geologically the best location of the south half of
- 24 Section 11.
- 25 Q. In your opinion, will the granting of Yates

Petroleum Corporation's application in this case be in 2 the interest of conservation of oil and gas, and 3 prevention of waste, and protection of correlative rights? Yes, it will. 5 Α. 6 MR. VANDIVER: Mr. Examiner, we would move admission of Applicant's Exhibits 1 through 5 at this time. 8 9 HEARING EXAMINER: Applicant's Exhibits 1 through 5 will be admitted into evidence at this time. 10 11 MR. VANDIVER: I have no further questions 12 of the witness. HEARING EXAMINER: I have no other 13 14 questions of this witness either. 15 Are there any other questions of this 16 witness? 17 Mr. Beck, you may be excused. Does anybody else have anything further in 18 19 the case of 9770? 20 This case will be taken under advisement. 21 22 23 24 25

1	CERTIFICATE OF REPORTER
2	
3	STATE OF NEW MEXICO)
4	COUNTY OF SANTA FE)
5	
6	I, Deborah O'Bine, Certified Shorthand
7	Reporter and Notary Public, HEREBY CERTIFY that the
8	foregoing transcript of proceedings before the Oil
9	Conservation Division was reported by me; that I
L 0	caused my notes to be transcribed under my personal
11	supervision; and that the foregoing is a true and
12	accurate record of the proceedings.
13	I FURTHER CERTIFY that I am not a relative
1 4	or employee of any of the parties or attorneys
15	involved in this matter and that I have no personal
16	interest in the final disposition of this matter.
17	WITNESS MY HAND AND SEAL November 1, 1989.
18	aborah U Zine
19	DEBORAH O'BINE CSR No. 127
20	
21	My commission expires: August 10, 1990
22	I do hereby certify that the foregoing is
23	a complete record of the proceedings in the Examiner hearing of Case No. 9770,
2 4	heard by me on 4 011042
25	Oil Conservation Division
	Oil Conservation Division