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 CONSERRVATION) DIVISION FOR THE PURPOSE OF)
7	CONSIDERING:) CASE NO 10939 and CASE NO 10949
8	CASE NO. 10940
9	APPLICATION OF MEWBOURNE OIL COMPANY
10	REPORTER'S TRANSCRIPT OF PROCEEDINGS
11	EXAMINER HEARING
12	
13	BEFORE: Jim Morrow, Hearing Examiner
14	March 17, 1994
15	Santa Fe, New Mexico
16	
17	This matter came on for hearing before the Oil
18	Conservation Division on March 17, 1994, at Morgan Hall,
L9	State Land Office Building, 310 Old Santa Fe Trail,
20	Santa Fe, New Mexico, before Diana S. Abeyta, RPR, Certified
21	Court Reporter No. 168, for the State of New Mexico.
22	
23	APR 1 1994
24	AR 4 1994
5	

1	INDEX				
2	Monah 17 1004				
3	March 17, 1994 Examiner Hearing CASE NO. 10939 and				
4	CASE NO. 10940		PAGE		
5	APPEARANCES		3		
6	MEWBOURNE OIL COMPANY'S WITNESSES:		J		
7	D. PAUL HADEN				
8	Examination by Mr. Bruce Examination by Examiner Morrow		4 7		
9	DAVID SHATZER				
10	Examination by Mr. Bruce Examination by Examiner Morrow		8 15		
11	REPORTER'S CERTIFICATE		17		
12	EXHIBITS				
13					
		ID	ADMTD		
	Exhibit 1 Exhibit 2	5 6	7 7		
15	Exhibit 2 Exhibit 3 Exhibit 4	5 6 9 10	7 7 14 14		
15 16	Exhibit 2 Exhibit 3 Exhibit 4 Exhibit 5 Exhibit 6	5 6 9 10 11 12	7 7 14 14 14 14		
15 16 17	Exhibit 2 Exhibit 3 Exhibit 4 Exhibit 5 Exhibit 6 Exhibit 7 Exhibit 8	5 6 9 10 11 12 12	7 7 14 14 14 14 14		
15 16 17 18	Exhibit 2 Exhibit 3 Exhibit 4 Exhibit 5 Exhibit 6 Exhibit 7	5 6 9 10 11 12 12	7 7 14 14 14 14		
15 16 17 18 19	Exhibit 2 Exhibit 3 Exhibit 4 Exhibit 5 Exhibit 6 Exhibit 7 Exhibit 8	5 6 9 10 11 12 12	7 7 14 14 14 14 14		
15 16 17 18 19 20	Exhibit 2 Exhibit 3 Exhibit 4 Exhibit 5 Exhibit 6 Exhibit 7 Exhibit 8	5 6 9 10 11 12 12	7 7 14 14 14 14 14		
15 16 17 18 19 20 21	Exhibit 2 Exhibit 3 Exhibit 4 Exhibit 5 Exhibit 6 Exhibit 7 Exhibit 8	5 6 9 10 11 12 12	7 7 14 14 14 14 14		
15 16 17 18 19 20 21 22	Exhibit 2 Exhibit 3 Exhibit 4 Exhibit 5 Exhibit 6 Exhibit 7 Exhibit 8	5 6 9 10 11 12 12	7 7 14 14 14 14 14		
15 16 17 18 19 20 21 22 23	Exhibit 2 Exhibit 3 Exhibit 4 Exhibit 5 Exhibit 6 Exhibit 7 Exhibit 8	5 6 9 10 11 12 12	7 7 14 14 14 14 14		
15 16 17 18 19 20 21 22	Exhibit 2 Exhibit 3 Exhibit 4 Exhibit 5 Exhibit 6 Exhibit 7 Exhibit 8	5 6 9 10 11 12 12	7 7 14 14 14 14 14		

1	A	PPEARANCES
2		
3	FOR THE DIVISION:	ROBERT G. STOVALL, ESQ. General Counsel
4		Oil Conservation Commission State Land Office Building
5		310 Old Santa Fe Trail Santa Fe, New Mexico 87501
6	FOR THE APPLICANT:	
7		COFFIELD & HENSLEY Post Office Box 2068
8		Santa Fe, New Mexico 87504-2068 BY: JAMES G. BRUCE
9		
10		-
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

- 1 EXAMINER MORROW: Call cases 10939 and 10940.
- 2 MR. STOVALL: And each of those is the
- 3 application of Mewbourne Oil Company for an unorthodox gas
- 4 well location in Eddy County, New Mexico.
- 5 EXAMINER MORROW: Call for appearances.
- 6 MR. BRUCE: Mr. Examiner, Jim Bruce, from the
- 7 Hinkle law firm in Santa Fe, representing the applicant. I
- 8 have two witnesses to be sworn.
- 9 EXAMINER MORROW: Witnesses please stand and be
- 10 sworn.
- 11 (Witnesses sworn.)
- D. PAUL HADEN
- 13 the witness herein, after having been first duly sworn
- 14 upon his oath, was examined and testified as follows:
- 15 EXAMINATION
- 16 BY MR. BRUCE:
- 17 Q. Would you please state your name for the record.
- 18 A. My name is Paul Haden.
- 19 Q. Who do you work for and in what capacity?
- 20 A. I work for Mewbourne Oil Company in the capacity
- 21 of petroleum landman.
- 22 Q. Have you previously testified before the
- 23 division?
- 24 A. Yes, I have.
- Q. Were your credentials as an expert landman

CUMBRE COURT REPORTING (505) 984-2244

- 1 accepted as a matter of record?
- 2 A. Yes, they were.
- 3 Q. Are you familiar with the land matters involved
- 4 in this these two cases?
- 5 A. Yes.
- 6 MR. BRUCE: Mr. Examiner, I tender Mr. Haden as
- 7 an expert landman.
- 8 EXAMINER MORROW: We accept Mr. Haden.
- 9 O. (BY MR. BRUCE) Mr. Haden, what is Exhibit 1?
- 10 A. Exhibit No. 1 is a land plat. It shows our
- 11 proposed locations, both which are indicated by red dots.
- 12 The first case would be Case No. 10939. This is in regard
- 13 to our proposed Vandagriff 23 Federal No. 1 well. The
- 14 proposed proration unit is the southwest quarter of Section
- 15 23 of Township 16 South, Range 28 east. This well is
- 16 located at 2,210 from the west line and 330 feet from the
- 17 south line of said Section 23. We're seeking approval for
- 18 an orthodox gas well location for that well.
- 19 Also, regarding Case No. 10940, our well location
- 20 is 2,140 from the north line -- excuse me -- 2,140 from the
- 21 west line, and 1,667 feet from the north line of Section 26,
- 22 also located in Township 16 South, Range 28 East, of which
- 23 the proration unit is the northwest quarter.
- 24 Q. And the target zone is the Vandagriff Keys Gas
- 25 Pool?

- A. Right; that's correct, at approximately 2,300
- 2 feet.
- 3 Q. Who are the offset operators?
- A. Mewbourne Oil Company is the offset operator for
- 5 all of these. In Section 23, Mewbourne Oil Company owns
- 6 approximately 60 percent of the working interest, of which
- 7 Mewbourne Oil Company is the operator of all of Section 23.
- 8 The section to the immediate west, being Section 22,
- 9 Mewbourne Oil Company, again, is the operator and owns
- 10 approximately 60 percent of the working interest. Section
- 11 26, Mewbourne Oil Company owns all Section 26 outright.
- 12 Also, in Section 27, Mewbourne Oil Company owns the oil and
- 13 gas lease covering that land also.
- Q. As a result of Mewbourne Oil Company being the
- 15 only offset operator, no notice was given to any other
- 16 party; is that correct?
- 17 A. That's correct.
- 18 Q. What does Exhibit 2 constitute?
- 19 A. Exhibit No. 2 is our Application for Permit to
- 20 Drill for each of these wells, both of which have been
- 21 approved by the Bureau of Land Management subject to
- 22 approval by the Oil Conservation Division.
- 23 O. In your opinion, is granting of both applications
- 24 in the interest of conservation and the prevention of waste?
- 25 A. Yes, that's right.

- 1 Q. And were Exhibits 1 and 2 prepared by you or
- 2 compiled from company records?
- 3 A. Yes, they were.
- 4 MR. BRUCE: Mr. Examiner, I move the admission of
- 5 Mewbourne's Exhibits 1 and 2.
- 6 EXAMINER MORROW: Exhibits 1 and 2 are admitted
- 7 into the record.
- 8 MR. BRUCE: I have nothing further.
- 9 EXAMINATION
- 10 BY EXAMINER MORROW:
- 11 Q. What depth did you say the wells would be?
- 12 A. Approximately 2,300 feet is their proposed total
- 13 depth for both of these wells.
- Q. Is this production around, is it at that depth,
- 15 what's shown on your Exhibit 1, is some of that at least
- 16 produced from that shallow depth?
- 17 A. Some of that, and our geologist will go into that
- 18 in more detail.
- 19 MR. STOVALL: Just one question, Mr. Haden. I'll
- 20 just ask you for a yes or no answer on it. These locations
- 21 are unorthodox for -- I'm assuming, since you've got
- 22 archaeological and topographical exhibits, for those reasons;
- 23 is that correct?
- 24 A. That is correct.
- Q. And are there --

- 1 A. Essentially, for Section 26, especially. And
- 2 Section 23, is also geologic.
- 3 MR. STOVALL: Answers my question.
- 4 EXAMINER MORROW: Thank you, sir.
- 5 DAVID SHATZER,
- 6 the witness herein, after having been first duly sworn
- 7 upon his oath, was examined and testified as follows:
- 8 EXAMINATION
- 9 BY MR. BRUCE:
- 10 Q. Would you please state your name and city of
- 11 residence.
- 12 A. My name is David Shatzer. I live in Midland,
- 13 Texas.
- Q. Who do you work for and in what capacity?
- 15 A. I'm a petroleum geologist for Mewbourne Oil
- 16 Company.
- 17 Q. Have you previously testified before the
- 18 division, as a geologist, and had your credentials accepted
- 19 as a matter of record?
- 20 A. Yes, I have.
- O. And are you familiar with the geological matters
- 22 involving these two case?
- 23 A. Yes, I am.
- Q. Are you also familiar with the topographic and/or
- 25 archeological matters involved in these applications?

- 1 A. Yes, I am.
- 2 MR. BRUCE: Mr. Examiner, is the witness
- 3 acceptable?
- 4 EXAMINER MORROW: Yes, sir.
- 5 Q. (BY MR. BRUCE) Mr. Shatzer, looking at the
- 6 Exhibit 3, let's discuss these proposed well locations, and
- 7 why don't you start with the well in the southwest quarter
- 8 of Section 23?
- 9 A. All right. Exhibit 3 is a combination
- 10 archaeological-topographic map on a 1 to 1,000 scale. And
- 11 therefore, the dashed outlines in Section 23, and also in
- 12 the northwest of Section 26, represent 160-acre gas
- 13 proration unit outlines. And the proposed location for the
- 14 Section 23 well is located within the open circle in the
- 15 southeast portion of that, southeast portion of that box.
- Q. What does the X to the northwest represent?
- 17 A. The X represents where the nearest -- we will
- 18 show geological reasons why we don't want to drill very far
- 19 to the northwest in Section 23, but that X is the nearest
- 20 location that would be a legal location for 160-acre
- 21 spacing, and it is unacceptable, as you can see, because it
- 22 is located in a ravine or draw that make topographic
- 23 considerations impossible to put a well site there.
- O. And the BLM would not want you to drill there; is
- 25 that correct?

- 1 A. That is correct.
- Q. Why don't you move on to Section 26.
- 3 A. Section 26, the proposed location is located in
- 4 the east half of the southeast quarter of that quarter
- 5 section, and it is also in a low spot or ravine coming off
- of this Pavo Mesa. However, it is wide enough, and we did
- 7 obtain approval from the BLM to be able to put a well
- 8 located in that east-facing ravine. I would point out that
- 9 most of the areas in the west half of Section 26 are largely
- 10 unacceptable because the topography is too rough because of
- 11 this ravine.
- 12 And then outlined in green, we have the first of
- 13 our two archaeological sites that were designated by the
- 14 archeologist, and Site 102,922 is located on the top of this
- 15 mesa, so that flat area becomes condemned for archaeological
- 16 reasons. The sides are condemned because of topographic,
- 17 and then on top of the mesa, there in the northwest quarter
- 18 of 26, that became condemned archeologically.
- 19 Q. Is Exhibit 4 a copy of the archaeological report
- 20 for Site LA 102,922?
- 21 A. Yes, is it is.
- Q. Now you've also marked on the map a separate
- 23 site. Has that affected -- and it's outlined in red on your
- 24 Exhibit 3 -- has that affected, to a certain extent, your
- 25 drilling in this area?

- 1 A. Yes, it has. I will show in subsequent maps that
- 2 the nearest production in the area from the Penrose, and
- 3 most of the production in the area is Penrose production, to
- 4 answer -- clarify an earlier question, most of it is
- 5 Penrose. The nearest wells are in the southwest corner of
- 6 27 -- the southeast corner of 27, and in the southwest
- 7 corner of 26. Those are the nearest wells that produced
- 8 from this. They are shown as gas symbols. And those are
- 9 the nearest wells. And our initial location that we would
- 10 have preferred to drill would have been an offset, a direct
- 11 offset from those wells.
- 12 And proposed locations that were approved by the
- 13 BLM concerning topography are shown in open circles just
- 14 north of each of those wells, in open circles in 27 and 26.
- 15 Those locations are inside the red outline, which is
- 16 archaeological site LA 102,411. And these sites were
- 17 acceptable from a topographic standpoint, but became
- 18 condemned by being in the outline of the archaeological
- 19 site.
- 20 And even a third location slightly north in
- 21 Section 27 was also condemned for the same reasons. And the
- 22 dashed outline shows that it was not checked in great
- 23 detail, but that this site seems to continue north on the
- 24 west face of the lower slope of this mesa.
- Q. And the second archeological report is submitted

- 1 as Exhibit 5?
- 2 A. Yes, it is.
- 3 Q. Why don't you move on to your Exhibit 6, then,
- 4 Mr. Shatzer, and discuss the production in this area and so
- 5 forth.
- 6 A. Exhibit No. 6 is a production study of the
- 7 Vandagriff area. And to answer an earlier question, most of
- 8 the production is in the Penrose, some wells being labeled
- 9 as gas wells, and the wells to the east, that trend is
- 10 mostly designated as oil wells, but it's all out of the
- 11 Penrose sands.
- On this map, this is a 1 to 2,000 scale, and the
- outline of our two proration units are in yellow in 26, and
- 14 Section 23. This map shows the cumulative production for
- 15 oil and gas and, also, a daily rate for those wells that are
- 16 still producing. Most of the wells closest to our proposed
- 17 location are plugged and abandoned.
- 18 Q. What is Exhibit 7?
- 19 A. Exhibit 7 is a structure map on top of the
- 20 Penrose, and it has a contour interval of 50 feet. And the
- 21 contouring generally shows an even dip rate with dip to the
- 22 east, southeast. And the proposed locations are roughly on
- 23 strike to the northeast of the nearest producers that I have
- 24 pointed out previously in the corners of Sections 27 and 26.
- 25 O. Could you move on to Exhibit 8 and discuss the

- 1 geological need for the well location you proposed in the
- 2 southwest quarter of Section 23.
- A. Exhibit 8 is a Penrose Net Sand Isopach, and the
- 4 data points are the total porosity from the Penrose sands
- 5 greater than or equal to 9 percent from all the Penrose
- 6 sands. The porosity trends are northeast southwest, and
- 7 nearly parallel each other.
- 8 The porosity trend that we are attempting to
- 9 extend is roughly parallel to the one to the east of it, and
- 10 we're attempting to go to the northeast of the last
- 11 producers in this trend. The porosity does, however, thin
- 12 going to the northwest. The last well on cross section G-G'
- 13 has only 16 feet of porosity, and it was a dry hole, and
- 14 this is located in Section 23. And that is the reason that
- 15 Section 23, we don't want to drill any farther to the
- 16 northwest than we have to.
- 17 So that we would like to drill in 26; it should
- 18 be in the heart of the porosity trend. And it's location
- 19 was merely limited by topography and archeology, but in
- 20 Section 23, we are limited somewhat by topography, but also
- 21 desire to stay in what we contour as the thickest portion of
- 22 the porosity isopach.
- 23 Q. Why don't you then move on to your cross section
- 24 marked Exhibit 9, and discuss that briefly.
- 25 A. Cross section G-G' runs southwest to northeast

- 1 across the prospect area, and it just confirms and shows the
- 2 type of porosity that we were picking in the area. The
- 3 Penrose Sand is shown colored in blue, again. And the
- 4 porosity that was pertinent to our data points is colored in
- 5 red. And it shows the intervals that have been perforated
- 6 in some of the other wells, and that our proposed location
- 7 is located to the northeast of one of the better wells,
- 8 closest to the prospect, the Gross Southern Union Federal
- 9 No. 2, and the kind of porosity that it had, and that
- 10 porosity diminishes, especially in the upper Penrose package
- 11 as you go to the northwest in that last well, the Tomsco
- 12 Promitory B in Section 23. And therefore, again, the reason
- 13 for our wanting to stay in the southeast quarter of that
- 14 quarter section of Section 23.
- 15 Q. In your opinion, is the granting of both of these
- 16 applications in the interest of conservation and the
- 17 prevention of waste?
- 18 A. Yes, it is.
- 19 Q. And were Exhibits 3 through 9 prepared by you or
- 20 compiled from company records?
- 21 A. Yes, they were.
- MR. BRUCE: Mr. Examiner, I move the admission of
- 23 Mewbourne Exhibits 3 through 9.
- 24 EXAMINER MORROW: Exhibits 3 through 9 are
- 25 admitted.

- MR. BRUCE: I have nothing further of the
- 2 witness.
- 3 EXAMINATION
- 4 BY EXAMINER MORROW:
- Q. What well did you expect to make when you
- 6 calculated the economics; what did you predict would be the
- 7 initial producing rate and recovery?
- 8 A. These are, obviously, shallow wells that should
- 9 be cheap to drill and they also are going to have -- the
- 10 type of average cumulative reserves that we ran the prospect
- on are in the neighborhood of the 300- to 330 million at the
- 12 closest two wells to us. The initial rates might be in the
- order of 300 to 500 mcf a day, half a million a day. I mean
- 14 this is a low area, and this really would point out another
- 15 reason that we're -- we're already taking some more risk
- 16 going farther to the northeast than what we wanted to, but
- 17 those archaeological sites, the BLM requires an
- 18 archeological mitigation before they can be drilled on, and
- 19 that adds extra expense to already wells that have economics
- 20 that can't stand too much increased cost to them. So those
- 21 are the kind of rates that we expect and why we're asking to
- 22 drill where we are.
- 23 O. Would a standard location be 660; is that
- 24 correct?
- 25 A. Yes, 660 out of each of the boundaries.

1	EXAMINER MORROW: Bob, have you got something	ι.
2	MR. STOVALL: No, I don't have any questions.	
3	EXAMINER MORROW: Anything else, Mr. Bruce?	
4	MR. BRUCE: No, sir.	
5	EXAMINER MORROW: Cases 10939 and 40 will be	
6	taken under advisement.	
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

1	CERTIFICATE OF REPORTER
2	STATE OF NEW MEXICO)
3 4) ss. COUNTY OF SANTA FE)
5	I, Diana S. Abeyta, Certified Shorthand Reporter
6	and Notary Public, HEREBY CERTIFY that I caused my notes to
7	be transcribed under my personal supervision, and that the
8	foregoing transcript is a true and accurate record of the
9	proceedings of said hearing.
10	I FURTHER CERTIFY that I am not a relative or
11	employee of any of the parties or attorneys involved in this
12	matter and that I have no personal interest in the final
13	disposition of this matter.
14	
15	WITNESS MY HAND AND SEAL, March 28, 1994.
16	
17	Dana Labera
19	DIANA S. (ABEYTA) CCR No. 168
20	cut atta Faroncina is
21	I do hereby certify that the foregoing is a complete record of the proceedings in
22	the Examiner hearing of Case No. 10939 + 10940 heard by me on March 17 1994.
23	Examiner
24	Oil Conservation Division
25	