CASE 2442: Application of EL PASO NATURAL GAS CO. to dual its MESCALERO RIDGE UNIT WELL NO. 1.

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mill Exhibits, Etc.

EDWIN L. MECHEM CHAIRMAH

State of New Mexico Oil Conservation Commission

LAND COMMISSIONER E, 4. JOHNNY WALKER MEMBER



STATE GEOLOGIST A. L. PORTER, JR. SECRETARY - DIRECTOR

SANTA FE

December 14, 1961

	Re:	Case No. 2442 Order No. R-2131
Mr. Garrett Whitworth El Paso Natural Gas Company		Applicant:
P. O. Box 1492 El Paso, Texas		El Paso Natural Gas Company

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

> A. L. PORTER, Jr. Secretary-Director

OTHER	Mr. Oliver Seth
Aztec OCC _	· · · · · · · · · · · · · · · · · · ·
Artesia OCC_	·
Hobbs OCC _	×
Carbon copy	of order also sent to:
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BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 2442 Order No. R-2131

APPLICATION OF EL PASO NATURAL GAS COMPANY FOR A DUAL COMPLETION, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 29, 1961, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 13th day of December, 1961, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, El Paso Matural Gas Corrany, is the owner and operator of the Mescalero Ridge Unit Well No. 1, located in Unit D of Section 21, Township 19 South, Range 34 Hast, NMPM, Lea County, New Mexico.
- (3) That the applicant proposes to complete the above-described Mescalero Ridge Unit Well No. 1 as a dual completion (conventional) in such a manner as to permit the production of oil from the Bone Springs formation through a string of 2 3/8-inch tubing and the production of gas from the Morrow formation through a parallel string of 2 1/16-inch tubing, separation of the zones to be with a packer.
- (4) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (5) That approval of the subject application will meither cause waste nor impair correlative rights.

-2-CASE No. 2442 Order No. R-2131

IT IS THEREFORE ORDERED:

(1) That the applicant, El Paso Natural Gas Company, is hereby authorized to complete its Mescalero Ridge Unit Well No. 1, located in Unit D of Section 21, Township 19 South, Range 34 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) in such a manner as to permit the production of oil from the Bone Springs formation through a string of 2 3/8-inch tubing and the production of gas from the Morrow formation through a parallel string of 2 1/16-inch tubing, separation of the zones to be with a packer.

PROVIDED HOWEVER, That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations.

PROVIDED FURTHER HOWEVER, That the operator shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Bone Springs zone and at such other times as the Secretary-Director of the Commission may prescribe.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deam necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

E. S. WALKER, Member

A. L. PORTER, Jr., Member & Secretary

DOCKET: EXAMINER HEARING - WEDNESDAY - NOVEMBER 29, 1961

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Elvis A. Utz, as alternate examiner:

Cases listed on this docket after Case 2444 will not be heard before 1 P.M.

CASE 2434:

Application of Amerada Petroleum Corporation for a dual completion and a 150-acre non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its State DA Well No. 1 located in Unit L, Section 16, Township 21 South, Range 37. East, Lea County, New Mexico, as a dual completion (conventional) in the Eumont Gas Pool and the Drinkard Pool, with the production of oil from the Drinkard zone to be through a string of 2 3/8-inch tubing and the production of gas from the Eumont zone to be through the tubing-casing annulus. Applicant further seeks the establishment of a 160-acre non-standard gas proration unit in the Eumont Gas Pool, comprising the N/2 S/2 of said Section 16, said unit to be dedicated to said State DA Well No. 1.

CASE 2435:

Application of Cities Service Oil Company for a triple completion, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks permission to complete its flodges "B" Well No. 3, located in Unit L of Section 1, Township 25 South, Range 37 East, Lea County, New Mexico, as a triple completion (conventional) in undesignated Blinebry and Drinkard pools and in the Fusselman formation adjacent to the North Justis-Fusselman pool, with the production of oil from the Blinebry and Drinkard zones to be through parallel strings of 2 1/16-inch tubing and the production of oil from the Fusselman zone to be through a parallel string of 2 3/8-inch tubing.

CASE 2436:

Application of Hudson & Hudson for two unorthodox oil well locations, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of two unorthodox oil well locations in the Maljamar Pool, one well to be located within 100 feet and not less than 25 feet of the Southeast corner of Unit J, Section 24, Township 17 South, Range 31 East, Eddy County, New Mexico, and one well to be located within 100 feet and not less than 25 feet of the Northwest corner of Unit O in said Section 24.

-2-Docket No. 32-61

CASE 2437:

Application of J. C. Williamson for a daul completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Westates-Federal Well No. 6, located in Unit D of Section 1, Township 25 South, Range 37 East, Lea County, New Mexico, as a dual completion (conventional) in the McKee and Ellenburger formations with the production of oil from both zones to be through parallel strings of 2 3/8-inch tubing.

CASE 2438:

Application of Texaco Inc. for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its V. M. Henderson Well No. 6, located in Unit C of Section 30, Township 21 South, Range 37 East, Lea County, New Mexico, as a triple completion in the Paddock, Blinebry Gas, and Drinkard Pools with the production of oil from the Drinkard formation to be through a tapered string of tubing of 2 1/16-inch and 1 1/4-inch diameter and from the Paddock formation to be through a parallel string of 2 1/16-inch tubing and the production of gas from the Blinebry formation to be through the tubing-casing annulus.

CASE 2421:

(Cont.)

Application of Texaco Inc. for approval of a unit agreement and for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Northeast Caprock (Queen) Unit Agreement, covering 1360 acres, more or less, in Township 12 South, Range 32 East, Caprock Queen Pool, Lea County, New Mexico. Applicant further seeks authority to institute a unit-wide waterflood by the injection of water into the Queen formation through 19 wells located within said unit.

CASE 2439:

Application of Sunray Mid-Continent Oil Company for a 67.04-acre non-standard oil proration unit and an unorthodox well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of 67.04-acre non-standard oil proration unit in the Totah-Gallup Oil Pool, comprising Lots 2, 3 and 4 of Section 14, Township 29 North, Range 14 West, San Juan County, New Mexico, said unit to be dedicated to a well to be located at an unorthodox location 330 feet from the North line and 2510 feet from the West line of said Section 14.

Docket No. 32-61

CASE 2440:

Application of Socony Mobil Oil Company for permission to transfer allowables, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks permission to shut-in the Boulder-Apache Well No. 12-14, located in Section 14, Township 28 North, Range 1 West, Boulder-Mancos Qil Pool, Rio Arriba County, New Mexico, and transfer its allowable to the Boulder-Apache Well No. 23-14 located in said Section 14 for the purpose of conducting interference tests.

CASE 2441:

Application of Water Flood Associated, Inc., for a waterflood project in the Maljamar and Robinson Pools, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a waterflood project in the Maljamar and Robinson Pools in portions of Sections 5,6 and 7, all in Township 17 South, Range 32 East, Lea County, New Mexico.

CASE 2442:

Application of El Paso Natural Gas Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Mescalero Ridge Unit Well No. 1, located in Unit D of Section 21, Township 19 South, Range 34 East, Lea County, New Mexico, as a dual completion (conventional) in the Bone Springs and Morrow formations, with the production of oil from the Bone Springs zone to be through a string of 2 3/8-inch tubing and the production of gas from the Morrow zone to be through a parallel string of 2 1/16-inch tubing.

CASE 2443:

Application of Gulf Oil Corporation for an 80-acre non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of an 80-acre non-standard gas proration unit in the Eumont Gas Pool, comprising the E/2 NE/4 of Section 34, Township 19 South, Range 36 East, Lea County, New Mexico, said unit to be dedicated to the J. W. Smith Well No. 2, located 660 feet from the North and East lines of said Section 34.

The following cases will not be heard before 1 P.M.

CASE 2444:

Application of Aztec Oil & Gas Company for an exception to Rule 309-A, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 309-A to permit the Totah-Gallup oil production from three wells on

-4-Docket No. 32-61

applicant's Hagood Federal Lease, located in Section 19, Township 29 North, Range 13 West, San Juan County, New Mexico, to be transported prior to measurement on said lease to applicant's Smith "C" Lease, located in Section 18, Township 29 North, Range 13 West.

CASE 2445:

Application of Southwest Production Company for an order extending the Flora Vista-Mesaverde Pool, San Juan County, New Mexico, and establishing special rules and regulations in said pool. Applicant, in the above-styled cause, seeks an order extending the Flora Vista-Mesaverde Pool to include Sections 22, 23, 26 and 27, all in Township 30 North, Range 12 West, San Juan County, New Mexico, and establishing special rules and regulations including a provision for 320-acre spacing units in said pool.

CASE 2446:

Application of Southwest Production Company for an order pooling all mineral interests in the Basin-Dakota Gas Pool in the E/2 of Section 22, Township 30 North, Range 12 West, San Juan County, New Mexico. Interested parties include Roy Rector and O. G. Shelby, both of Flora Vista, New Mexico, and Myron T. Dale, address unknown.

CASE 2416:

(Cont.)

Application of Southwest Production Company for an order pooling all mineral interests in an undesignated Mesaverde gas pool in the E/2 of Section 22, Township 30 North, Range 12 West, San Juan County, New Mexico.

CASE 2447:

Application of Humble Oil & Refining Company for approval of a pressure maintenance project in the Cha Cha-Gallup Oil Pool, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a pressure maintenance project in the Cha Cha-Gallup Oil Pool by the injection of water into certain wells located on the Navaj Indian Reservation in Sections 13 through 29 and 33 through 36, Township 29 North, Range 14 West, San Juan County, New Mexico. Applicant further seeks the promulgation of specail rules and regulations governing said project.

CASE 2448:

Application of Pan American Petroleum Corporation for a pressure maintenance project, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a pressure maintenance project on its C. J. Holder,

Docket No. 32-61

State Holder Oil Unit, State "CA", State Oil Unit and Gallegos Canyon Unit Leases, San Juan County, New Mexico, in the Cha Cha-Gallup Oil Pool with water injection initially to be through five wells located in Sections 8 and 16, Township 28 North, Range 13 West, and Section 23, Township 28 North, Range 12 West, and requests adoption of special rules to govern the operation of said project.

CASE 2449:

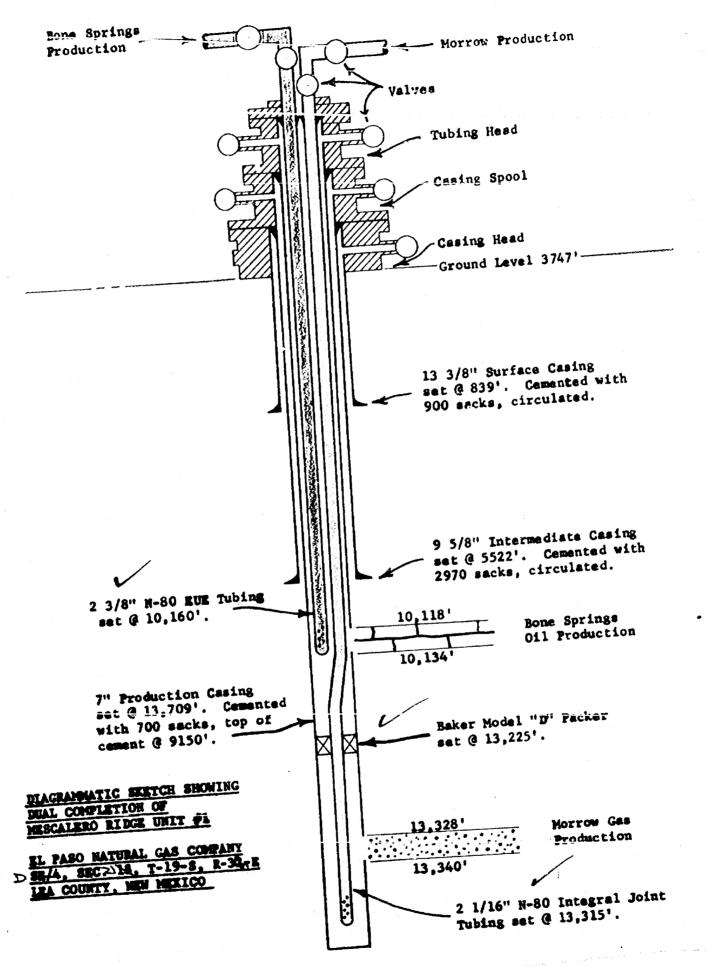
Application of Pan American Petroleum Corporation for a pressure maintenance project, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a pressure maintenance project on its Navajo Tribal "II" and Gallegos Canyon Unit Leases, San Juan County, New Mexico, in the Totah-Gallup Oil Pool with water injection initially to be through five wells located in Section 35, Township 29 North, Range 13 West, Section 12, Township 28 North, Range 13 West, and Sections 13 and 24, Township 29 North, Range 14 West, and requests adoption of specail rules to govern the operation of said project.

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

		County	Date November 2 1061				
Wildcat	Lease	Lea	November 3, 1961				
El Paso Natural Gas Co	ompany M	escalero Ridge Unit	1				
Cation Unit D	ection 21	Township 19 South	Range 34 East				
Has the New Mexico Oil Conservation			n of a well in these same pools or in the same				
zones within one mile of the subject w			N. W. M. M.				
If answer is yes, identify one such ins	dance: Order No.	; Operator, Le	ase, and well ivo.:				
The following facts are submitted:	l	Jpper Zone	Lower Zone				
o. Name of reservoir	Bone Spring	rs	Morrow				
5. Top and Bottom of							
Pay Section	10118-1013	4	13328-13340				
(Perforations)							
c. Type of production (Oil or Gas)	Oi1		Gas				
d. Method of Production	Flowing		Flowing				
(Flowing or Artificial Lift)			~ ~ 11 ~ - D				
The following are attached. (Please n	ark 125 of NU)						
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·	=	setting depth, location and type of	f packers and side door chokes, and such other				
information as may be perting Yes by Distriction of the location of		cont's loops all offeet wells on	ffset leases, and the names and addresses of				
operators of all leases offset			inser reases, and the hames and addresses of				
N/A			thereof, evidence that said offset operators ha				
been furnished copies of the		an each officer operator, or in the	of condense that only of operations in				
NIA :		og with tops and bottoms of produ	ring zones and intervals of perforation indicat				
			submitted as provided by Rule 112-A.)				
List all offset operators to the lease o	n which this well is	located together with their correct	t mailing address.				
Gulf Oil Corporation							
Post Office Box 1150							
Midland, Texas							
Midland, Texas							
Midland, Texas							
Midland, Texas							
	e notified and furni	shed a copy of this application?	VES NO X If accurate in was given de				
Vere all operators listed in Item 5 abov	e notified and furnis	shed a copy of this application?	YESNO _X . If answer is yes, give de				
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Were all operators listed in Item 5 above of such notification	ate that I am the Pay), and that I am au the facts stated the facts not accompany on for a period of two test nor request for	roration Engineer thorized by said company to make erein are true, correct and comple an application for administrative renty (20) days from date of received by the Santa	of the El Paso Natural Gas Composition this report; and that this report was prepared to the best of my knowledge. Signature approval, the New Mexico Oil Conservation				



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SETH, MONTGOMERY, FEDERICI & ANDREWS

ATTORNEYS AND COUNSELORS AT LAW

301 DON GASPAR AVENUE

SANTA FE, NEW MEXICO

COUNSEL

POST OFFICE BOX 828 TELEPHONE YU 3-7315

A. K. MONTGOMERY OLIVER SETH WM. FEDERICI FRANK ANDREWS FRED C. HANNAHS GEORGE A. GHAHAM, JR.

November 29, 1961

New Mexico Oil Conservation Commission State Land Office Building Santa Fe, New Mexico

Re: Case No. (2442) - Application of El Paso Natural Gas Co. for Dual Completion, Lea County, N. M.

Gentlemen:

We hereby enter our appearance in the above case on behalf of the applicant and will have associated with us Mr. Garrett Whitworth and other attorneys of the applicant.

Very truly yours,

SETH, MONTGOMERY, FEDERICI & ANDREWS

By To Port

OS:wcl

CASE 2142

El Paso Natural Gas Company

El Paso, Texas

November 3, 1961

New Mexico Oil Conservation Commission Post Office Box 871 Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

Attached is an application for a dual completion of the El Paso Natural Gas Company's Mescalero Ridge Unit #1, located in Unit D, Section 21, Township 19 South, Range 34 East. This well is completed an an oil and gas dual in the Bone Springs and Morrow formations. It is requested that this application be set for hearing as soon as possible.

If any additional information is needed, please call me.

Very truly yours,

PRORATION DEPARTMENT

G. A. Hickson Engineer

GAH:mm attachment (3)

Jaman 1/16/

BEFCRE THE OTA CONSERVATION COMMISSION Santá Fe, New Mexico

November 29, 1961

EXAMINER HEARING

FARMINGTON, N. M. PHONE 325-1182

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IN THE MATTER OF:

Application of El Paso Natural Gas Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Mescalero Ridge Unit Well Number 1 located in Unit D of Section 21, Township 19 South, Range 34 East, Lea County, New Mexico, as a dual completion (conventional) in the Bone Springs and Morrow formations, with the production of oil from the Bone Springs zone to be through a string of 2 3/8-inch tubing and the production of gas from the Morrow zone to be through a parallel string of 2 1/16-inch tubing.

CASE NO. 2442

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

EXAMINER NUTTER: We will call Case No. 2442.

MR. WHITFIELD: Application of El Paso Natural Gas Com-

pany for a dual completion, Lea County, New Mexico.

MR. WHITWORTH: Garrett Whitworth, El Paso, Texas, representing the Applicant. We have one witness, Mr. Gerald A. Hickson.

GERALD A. HICKSON,

called as a witness, having been first duly sworn on oath, was



DEARNLEY-WEIER REPORTING SERVICE, Inc.

examined and testified as follows:

DIRECT EXAMINATION

BY MR. WHITWORTH:

- Would you state your full name, by whom you are enployed, and in what capacity you are employed?
- Gerald A. Hickson, proration engineer for El Paso Natural Gas Company.
- You have previously testified before this Commission as an expert witness?
 - Α Yes, sir, I have.
 - Your qualifications are a matter of record? Q
 - Yes, sir, they are.

MR. WHITWORTH: Are the witness's qualifications acceptable?

EXAMINER NUTTER: Yes, sir, please proceed.

- (by Mr. Whitworth) You are familiar with El Paso Natural Gas Company's application in this case. Would you please explain to the Examiner what El Paso is seeking?
- We are seeking permission to complete, dually complete a well in the Mescalero Ridge unit with the Bone Springs and Morrow gas.
- Do you have an exhibit showing exactly where this well is located?

Yes.

(Applicant's Exhibit 1 marked.)



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- This is El Paso Natural Gas Company's Exhibit Mo. 1? ું
- yes, sir. А
- Where is it located?
- The well is located in the Northwest of the Northwest Q of Section 21, Township 19 South, Range 34 East.
 - Who are the offset operators?
 - There is one, Gulf Oil Corporation, to the north.
 - Is this well a wildcat?
 - Yes, sir. It goes in both zones. Q
 - Do you have an exhibit, Mr. Hickson, showing the A physical equipment that is installed in the well?
 - Yes, sir. A
 - Is that El Paso's Exhibit No. 2? Q
 - Yes, sir. Α

(Applicant's Exhibit No. 2

marked.)

(by Mr. Whitworth) Will you please explain what this Q

This is a diagrammatic sketch showing the casing exhibit shows? string, production string, size, and depth at which they're set, the sacks of cement and position of the packer which is a Baker Model D packer set at 250 feet, and the producing zones. The Bone Springs oil was completed at 10,118 to 10,134 and Morrow gas zones, 13,328 to 13,340.

I notice that a Baker Model D packer was installed.



Is this a permanent type production packer?

- Yes, sir.
- Was a packer leakage test taken? Q.
- Yes, sir, the date the well was completed.
- What did that reveal? Q.
- It was filed with the Commission in Hobbs and revealed, it showed no communication between the two zones.
- Do you have any pressure data with respect to both these zones?
- Yes, sir. Shut-in pressure of the Morrow, shut-in bottomhole pressure was 6631 pounds initially as against 4308 pounds for the Bone Springs. Gravity of the Bone Springs was 31 degrees. Gravity in the Morrow is 56.5. GOR of the Morrow is 33,181 cubic feet per barrel of condensate and the GOR of the Bone Springs was 677 cubic feet per barrel of oil produced.
 - Do you have any well log data?
 - Yes, sir.

(Applicant's Exhibit No. 3

marked.)

- Showing you El Paso's Exhibit No. 3, would you explain what that shows?
- Exhibit No. 3 is an electric log of the Mescalero Ridge Unit No. 1 showing the top of the Bone Springs perforated interval, position of the packer, and the top of the Morrow and the perforated interval in the Morrow.



Q Do you have anything else you'd like to add to your testimony?

- A No. sir.
- Q Were El Paso's Exhibits 1, 2, and 3 prepared by you or under your supervision?
 - A Yes, sir.

MR. WHITWORTH: We ask that El Paso's Exhibits 1, 2, and 3 be admitted in evidence.

EXAMINER NUTTER: They will be admitted in evidence.

MR. WHITWORTH: That's all we have.

CROSS EXAMINATION

BY EXAMINER NUTTER:

- Q Mr. Hickson, what is the top of the Bone Springs?
- A 8056 feet. It's pretty high.
- Q What are the potentials for these two zones, Mr. Hick-son?
- A The potential for the Morrow formation is 1300 MCF per day based on a test which is filed in the District Office, and the potential of the Bone Springs oil formation is 993 barrels oil with 4.92 barrels water per day.

EXAMINER NUTTER: Are there any further questions of Mr. Hickson?

He may be excused.

(Witness excused.)

EXAMINER NUTTER: Does anyone have anything they wish



to offer in Case No. 2442?

We will take the case under advisement and recess until 1:35.

STATE OF NEW MEXICO) SS. COUNTY OF SAN JUAN

I, THOMAS F. HORNE, NOTARY PUBLIC in and for the County of San Juan, State of New Mexico, do hereby certify that the foregoing and attached transcript of hearing was reported by me in stenotype and that the same was reduced to typewritten transcript under my personal supervision and contains a true and correct record of said proceedings, to the best of my knowledge, skill and ability.

NOTARY PUBLIC

My Commission Expires: October 2, 1965

> I do hereby certify that the foregoing is a complete record of the proceedings the Examiner hearing of Case No

. Examiner New Mexico Oil Conservation Commission



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