

CASE 4629: Application of EL PASO  
NATURAL GAS COMPANY FOR A DUAL  
COMPLETION, EDDY COUNTY, N. M.

Case Number  
4629

Application

Transcripts

Small Exhibits

ETC.

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SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

209 SUMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico  
December 1, 1971

EXAMINER HEARING

-----  
IN THE MATTER OF: )

Application of El Paso Natural )  
Gas Company for a dual comple- )  
tion, Eddy County, New Mexico. )

Case No. 4629

-----  
BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

I N D E XPAGEEUGENE R. MANNING

Direct Examination by Mr. Morris

3

E X H I B I T SMarkedOffered and  
Admitted

Applicant's Exhibits Nos. 1 thru 4

3

11

MR. NUTTER: The Hearing will come to Order, please. The first case this morning will be Case No. 4629.

MR. HATCH: Case No. 4629. Application of El Paso Natural Gas Company for a dual completion, Eddy County, New Mexico.

MR. MORRIS: Mr. Examiner, I am Dick Morris of Montgomery, Federici, Andrews, Hannahs and Morris, Santa Fe, representing the Applicant. I have one witness, Mr. Manning, and I ask that Mr. Manning be sworn.

(Witness sworn.)

(Whereupon, Applicant's Exhibits 1 through 4 were marked for identification.)

EUGENE R. MANNING

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. MORRIS:

Q Mr. Manning, please state your name, where you reside, by whom you are employed, and in what capacity?

A My name is Eugene R. Manning. I reside in El Paso, Texas, and I am employed by El Paso Natural Gas as an Administrative Assistant in El Paso's gas proration operations department.

Q Have you previously testified before the Commission or its Examiners and had your qualifications established as a matter of record?

A Yes, sir, I have testified before them and they have been accepted -- my qualifications have been accepted.

Q What is El Paso seeking in this Application?

A Well, in this Case 4629, El Paso Natural Gas is seeking approval for dual completion of its Rocky Arroyo Unit No. 1. This well was drilled in Unit "J" of Section 8, Township 22 South, Range 22 East, Eddy County, New Mexico and was dually completed in the undesignated Wolfcamp and Morrow pools.

El Paso seeks approval for the dual completion of a conventional type for this well in such a manner as to permit the production of gas from an undesignated Morrow pool through the tubing and an undesignated Wolfcamp gas pool through the casing-tubing annulus.

Q Please refer to Exhibit No. 1 and point out the features shown on that Exhibit?

A Well, Exhibit No. 1 is a map of the area of -- surrounding our Rocky Arroyo Well No. 1. It shows in there approximately 5800 acres in a Unit of which El Paso

owns 75 per cent plus working interest in it. Now, this is a working interest in it only. It is not a unit that must be approved by the Commission.

The red dot represents the location of the Well in Unit "J" of Section 8. Southeast of the well is a dry hole which Atlantic Richfield drilled, Cowley Unit No. 1.

Q What other wells are shown on this?

A Well, there are some other dry holes surrounding this. One of them is up in Section 3 which was a C.R.M. and I believe that is also a Cowley No. 1 well for Inman. West of the Unit, Continental drilled a dry hole in Section 1, but that will be in Township 21 East. In Section 12 of the same Township, Marathon drilled a dry hole and this is approximately a mile west of our unit lines.

Q So this is a wildcat, rank wildcat well?

A Yes, sir, it is.

Q All right. Please refer to Exhibit No. 2, the diagrammatic sketch and point out how this well is being completed?

A Exhibit 2 is a diagrammatic sketch of the Rocky Arroyo Well No. 1. It shows that 13 and 3/8 inch

casing was set at 181 feet and cemented to the surface. It also shows that the 9-and-5/8-inch casing was set at 1797 feet and the top of the cement came to 486 feet by a temperature survey. The 5½-inch casing was set at 9379 feet and the temperature survey showed the top of the cement at 3320. It shows a Baker Latch Set Packer set at 8900 feet. It shows the Wolfcamp perforations from 6563 feet to 6600 feet. It shows this was perforated with one shape charge per foot. It shows the 2-and-3/8 inch O.D. tubing set inside the Baker Latch Set Packer. It shows the lower Morrow perforated from 8956 to 8965 and 9038 to 9052 with one shaped charge per foot.

Q Is there anything unconventional about this type of completion?

A No, sir.

Q Mr. Manning, were any tests run on the Wolfcamp formation and the Morrow formation during drilling and completion of this well?

A Yes, sir. El Paso flowed the Wolfcamp formation at various rates, from approximately 1.6 million cubic feet per day through a 3/16-inch choke to approximately 6.2 million cubic feet per day through



a one-half inch choke, and this calculated to an A.O.F. of about 20.5 million cubic feet per day.

Q Which zone is that?

A This is the Wolfcamp. This is the best zone. The Morrow formation flowed through a 1/8 inch choke at various rates ranging from .9 million cubic feet per day to 1.8 million cubic feet per day through a half-inch choke, and this calculated an A.O.F. of about 2 million cubic feet per day.

Q Please refer to Exhibit No. 3 and point out the information on this Exhibit?

A This is Sundry Notices and Reports on Wells which was filed with the U. S. Department of Interior Geological Survey inasmuch as this was drilled on U.S. land. It shows, among other things, that El Paso Natural Gas Company drilled the Rocky Arroyo Well No. 1, a wildcat, in Section 8, Township 22 South, Range 22 East. It also shows the ground elevation at the well site was 4393 feet, and in Section 17 of this report is a brief summary of the drilling of the well from the time of the perforating of the formation -- or from the time we began drilling through the perforating of the formations and treating them with acid. I think it mainly shows that

the casing, all strings of casing, were properly tested.

Q Now, refer to Exhibit No. 4, the Well Log.  
What kind of a Log is this, Mr. Manning?

A This is a Schlumberger Bore-Hole Compensated Sonic Log Gamma Ray. It has information at the top of it showing the well and the elevations and the date that the well was logged which was October 26, 1971 and the T.D. that was reached by the driller and the T.D. that was reached by the operator of the log.

Q Would you point out the drillstem test information that is shown on here and also the perforations?

A All right, sir. This is a partial log. This is not the entire log. This is a partial log of the log that was run, but this log covers the interval from 6400 feet to T.D. of 9337 feet. It shows at the top of the log at around 6500 feet Drillstem Test No. 3 which was a mis-run and it was attempted between 6560 feet and 6600 feet. It shows Drillstem Test No. 4 from 6560 to 6630 feet in which was recovered approximately 700 MCF gas at a flowing pressure of 134 pounds and at a shut-in pressure of 2429 pounds. It also shows marked on this log the perforations in the Wolfcamp and it shows the treatment of 500 gallons of 15 per cent acid

and then 5500 gallons of 20 per cent acid. It shows a calculated A.O.F. of 20 million .58 MCF. It shows a shut-in of 1873 pounds. At 6869 feet is marked the top of the Cisco. At approximately 1720 feet is Drillstem Test No. 5 in which there was an insignificant recovery. At 7859 feet is the top and is marked "Top of the Lower Strawn." Marked at 8390 feet is the top of the Atoka. At 8808 feet is marked the top of the Morrow Sand. Also, in this same interval is drillstem information on Drillstem Test No. 7 which was taken from 8130 feet to 8876 feet. It shows that we recovered approximately 220 feet of gas cut mud and a flowing pressure of 99 pounds to 137 pounds, with a shut-in pressure of 3151 pounds. The Drillstem Test No. 8 which was taken from 8910 feet to 8990 and indicates a flowing pressure of 134 pounds and recovery of 3 feet of gas cut drilling mud, and a shut-in pressure of 3398 pounds. On the lefthand side of the Log are the perforations in the Morrow formations from 8956 to 8965 and it is showing a shut-in pressure of 2723 pounds and an A.O.F. of 2008 MCF. Down on the lefthand side under that shows the Morrow -- some additional perforations -- from 9038 to 9052. At 9140 is marked the top of the Barnett, and

on the righthand side it shows the Drillstem Test No. 9 which was taken in the Barnett which didn't recover any fluid or any indication of production. Then, down at the bottom of the Log at 9337 feet is marked the Mississippian.

Q Mr. Manning, in your opinion, does the manner in which this well was completed comply with the Commission's Rules, Regulations and practices concerning dual completion?

A Yes, sir. The manner in which this well was completed will permit the hydrocarbons from both zones to be safely and efficiently produced, with one zone which may produce via the tubing and the other via the tubing-casing annulus. The tubing has an inside diameter of 1.992 inches. As previously mentioned, the Baker Latch Set Packer is set at 8900 feet and efficiently and safely separates the producing zones and should or will prevent communication.

As indicated by Exhibit 3, pressure tests have been made to determine that no casing leaks exist.

Q In your opinion will the granting of this Application protect correlative rights and prevent waste?

A Yes, sir.

Q Were these Exhibits 1 through 4 prepared by you or under your supervision?

A Yes, sir, they were.

MR. MORRIS: We offer into evidence Applicant's Exhibits 1 through 4.

MR. NUTTER: Applicant's Exhibits Nos. 1 through 4 will be admitted in evidence.

(Whereupon, Applicant's Exhibits Nos. 1 through 4 were offered and admitted in evidence.)

MR. MORRIS: That's all I have on Direct.

MR. NUTTER: Does anyone have any questions of Mr. Manning?

You may be excused.

(Witness dismissed.)

MR. NUTTER: Do you have anything further, Mr. Morris?

MR. MORRIS: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case No. 4629?

We will take the case under advisement.

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

I, RICHARD L. NYE, Court Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

Richard L. Nye  
 COURT REPORTER

My Commission expires March 25, 1975.

I do hereby certify that the foregoing is a true and correct record of the proceedings in the hearing of Case No. 4629, held by me on 12/1 1971.  
Richard L. Nye, Examiner  
 New Mexico Oil Conservation Commission



United States Department of the Interior

GEOLOGICAL SURVEY

RECEIVED

Drawer 1857  
Roswell, New Mexico 88201

DEC 9 1971  
U.S. CONSERVATION COMM.  
SANTA FE

December 7, 1971

El Paso Natural Gas Company  
600 Building of Southwest  
Midland, Texas 79701

Gentlemen:

Our records show you are the operator of well No. 1 Rocky Arroyo located in the NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 8, T. 22 S., R. 22 E., lease NM-12097, Eddy County, New Mexico. This well was dually completed on November 13, 1971, with an absolute open flow potentials of 20,508 MCF of gas per day from the Wolfcamp formation, and 2,008 MCF of gas per day from the Morrow formation. According to our records, the well is currently shut in.

The standard spacing for gas wells completed in the Wolfcamp is 160 acres. Accordingly, the 120 acres in this lease which is in the SE $\frac{1}{4}$  sec. 8, should be communitized with other acreage in the SE $\frac{1}{4}$  sec. 8 to form an appropriate 160-acre spacing unit covering the Wolfcamp formation.

The standard spacing for gas wells completed in the Morrow is 320 acres. Accordingly, the 280 acres in this lease which is in the S $\frac{1}{2}$  sec. 8, should be communitized with other acreage in the S $\frac{1}{2}$  sec. 8 to form an appropriate 320-acre spacing unit in the Morrow formation.

A copy of the standard communitization agreement form currently in use for Federal lands is attached. The effective date of communitization should be prior to the date of first production. Five executed copies of each agreement are required. One of each will be returned to you when approved. Please contact this office if you need additional information.

Sincerely yours,

(ORIG. SGD.) N. O. FREDERICK

N. O. FREDERICK  
Regional Oil and Gas Supervisor

cc:  
Artesia  
NMOCC, Santa Fe ✓  
Accounts  
JAKnauf/12-3-71

*file*  
1. core 4629  
2. well file  
for merged  
well



# OIL CONSERVATION COMMISSION

**STATE OF NEW MEXICO**  
**P. O. BOX 2088 - SANTA FE**  
**87501**

GOVERNOR  
BRUCE KING  
CHAIRMAN

**LAND COMMISSIONER  
ALEX J. ARMIJO  
MEMBER**

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

**December 3, 1971**

Re: Case No. 4629

Order No. R-4229

**Applicant:**

El Paso Natural Gas Co.

Mr. Richard S. Morris  
Montgomery, Federici, Andrews,  
Hanna & Morris  
Attorneys at Law  
Post Office Box 2307  
Santa Fe, New Mexico

Dear Sir:

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

Very truly yours,

A. L. Porter, Jr.

A. L. PORTER, Jr.  
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC           x          

Artesia OCC

Aztec OCC

Other \_\_\_\_\_



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. 4629  
Order No. R-4229

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

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on December 1, 1971, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 2nd day of December, 1971, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, 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 Natural Gas Company, seeks authority to complete its Rocky Arroyo Well No. 1, located in Unit J of Section 8, Township 22 South, Range 22 East, MMPN, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Morrow Gas Pool through 2 3/8-inch tubing and gas from an undesignated Wolfcamp gas pool through the casing-tubing annulus, with separation of zones by a packer set at approximately 8,900 feet.

(3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent waste and protect correlative rights.

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CASE NO. 4629  
Order No. R-4229

IT IS THEREFORE ORDERED:

(1) That the applicant, El Paso Natural Gas Company, is hereby authorized to complete its Rocky Arroyo Well No. 1, located in Unit J of Section 8, Township 22 South, Range 22 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Morrow Gas Pool through 2 3/8-inch tubing and gas from an undesignated Wolfcamp gas pool through the casing-tubing annulus, with separation of zones by a packer set at approximately 8,900 feet.

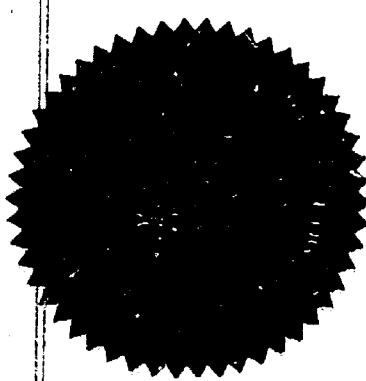
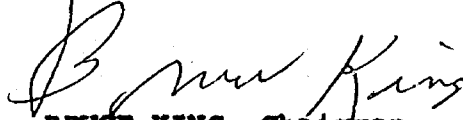
PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual shut-in Pressure Test Period for the undesignated Morrow Gas Pool.

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

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
  
BRUCE KING, Chairman

  
ALEX J. ARMILLO, Member

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

S E A L

dr/

Docket No. 27-71

DOCKET: EXAMINER HEARING - WEDNESDAY - DECEMBER 1, 1971

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

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

CASE 4629: Application of El Paso Natural Gas Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Rocky Arroyo Well No. 1 located in Unit J of Section 8, Township 22 South, Range 22 East, in such a manner as to permit the production of gas from an undesignated Morrow gas pool through tubing and an undesignated Wolfcamp gas pool through the casing-tubing annulus.

CASE 4630: Application of C. W. Trainer for a non-standard gas unit, Lea County, New Mexico. Applicant, in the above-styled cause, seek approval of a 316.15-acre non-standard gas spacing unit comprising Lots 1 and 2 and E/2 W/2 of Section 31, Township 24 South, Range 37 East, and Lots 2 and 3 of Section 6, Township 25 South, Range 37 East, Custer-Ellenburger Gas Pool, Lea County, New Mexico, to be dedicated to a well to be drilled 660 feet from the South line and 1590 feet from the West line of said Section 31.

CASE 4631: Application of Gulf Oil Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Learcy McBuffington Well No. 7 located in Unit M of Section 13, Township 25 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Justis-Tubb-Drinkard Oil Pool and gas from the Justis-Glorieta Gas Pool through parallel strings of tubing.

CASE 4632: Application of Mobil Oil Corporation for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dedicate the W/2 of Section 14, Township 17 South, Range 34 East, to its Bridges State Well No. 133, situate at an unorthodox location for said unit in the North Vacuum-Morrow Gas Pool, Lea County, New Mexico.

CASE 4563: Continued from the November 10, 1971, Examiner Hearing

Application of Corinne Grace for special gas-oil ratio limitation and pressure maintenance project, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to produce her State Well No. 1 located in Unit A of Section 1, Township 15 South, Range 29 East, Double L-Queen Pool, Chaves County, New Mexico, with no gas-oil ratio limitation, strip the liquids, and institute a pressure maintenance project by the injection of all said gas back into the producing formation through her State Well No. 2 located in Unit B of said Section 1. Applicant further seeks to transfer an oil allowable from said Well No. 2 to said Well No. 1.

CASE 4619: Continued from the November 10, 1971, Examiner Hearing

Application of Corinne Grace for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface of the ground down to and including the Morrow formation underlying the N/2 of Section 25, Township 22 South, Range 26 East, which acreage is within one mile of the South Carlsbad-Morrow Gas Pool, Eddy County, New Mexico. Said acreage to be dedicated to a well to be drilled to the Morrow formation at a location 1980 feet from the North and East lines of said Section 25. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges of supervision of said well.

CASE 4620: Continued from the November 10, 1971, Examiner Hearing

Application of Corinne Grace for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface of the ground down to and including the Morrow formation underlying the N/2 of Section 24, Township 22 South, Range 26 East, which

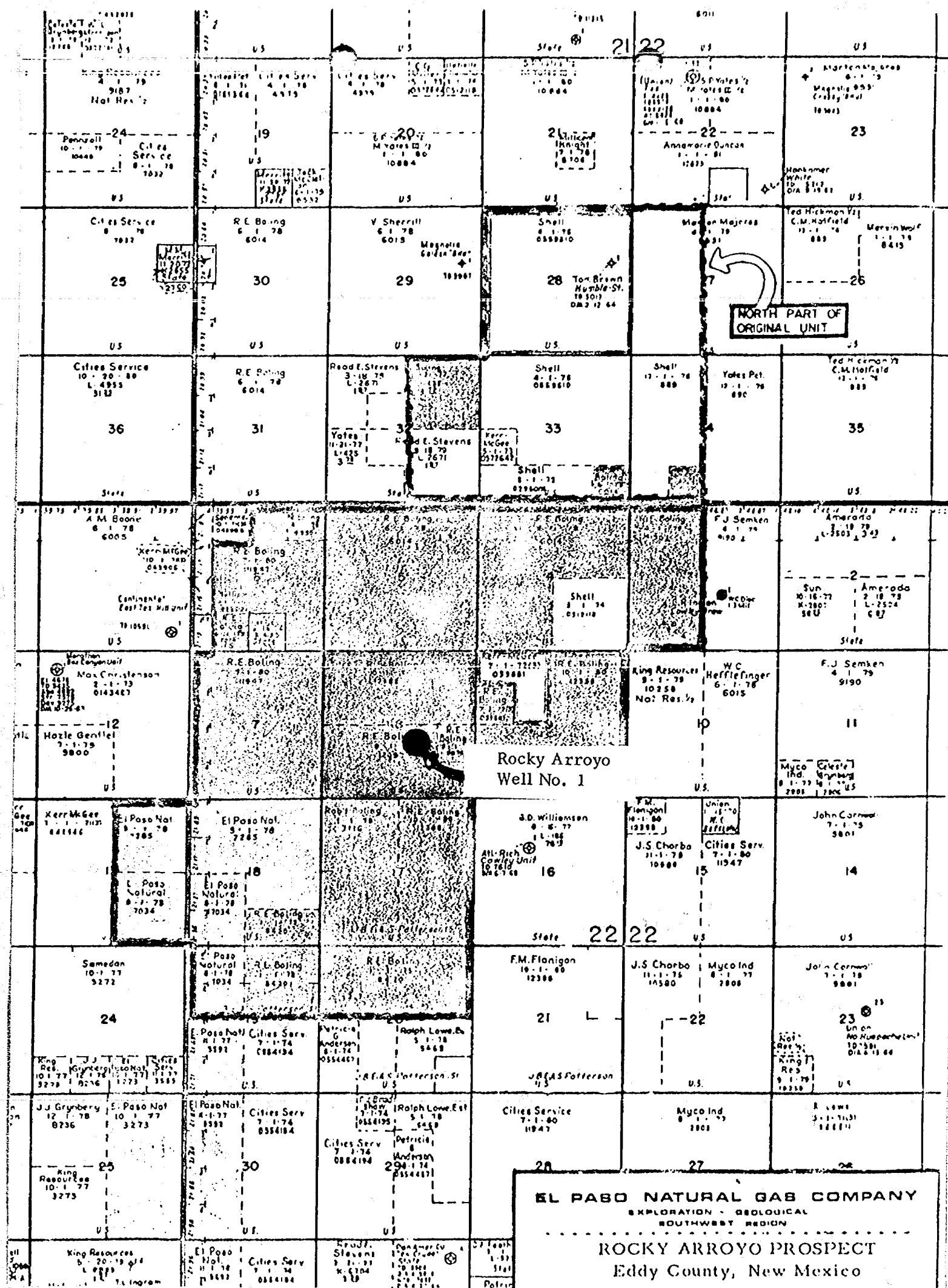
-3-

Examiner Hearing - December 1, 1971

Docket No. 27-71

(Case 4620 continued)

acreage is in the vicinity of the South Carlsbad-Morrow Gas Pool, Eddy County, New Mexico. Said acreage to be dedicated to a well to be drilled to the Morrow formation at a location 1980 feet from the North and East lines of said Section 24. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.



BEFORE EXAMINED AFTER  
CIT. CONSERVATION NO. 1  
EXHIBIT NO. 1  
CIT. NO. 4629

# DIAGRAMATIC SKETCH

ELING ROCKY ARROYO NO. 1 WELL  
Section 8, T-22-S, R-22-E,  
Eddy County, New Mexico

13-3/8" casing set @  
181'  
Cmt to surface

9-5/8" casing set @ 1797'  
Top of cmt @ 486'

5 1/2" casing set @ 9379'  
Top of cement @ 3320'

Baker latch-set  
packer set @ 8900'

2-3/8" tubing

Perf. 6563' - 6600'  
Wolfcamp Reef

1 shot/ft

BEFORE EXAMINER'S SIGNATURE

FILE NO. 4629

DATE 2

Perf 8956-8965

1 shot/ft

Perf 9038-9052  
Lower Morrow

1 shot/ft

Ex No. 2



5-331  
(May 1967)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

U. LEASE DESIGNATION AND SERIAL NO.

MM 12097

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR El Paso Natural Gas Company	8. FARM OR LEASE NAME Rocky Arroyo
3. ADDRESS OF OPERATOR 600 Building of the Southwest, Midland, Texas 79701	9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  Unit J, 1980 FSL & 1980 FEL	10. FIELD AND POOL, OR WILDCAT Wildcat
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, ST, GR, etc.) 4393.0 GR
	12. COUNTY OR PARISH Eddy
	13. STATE New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Running casing & perfs

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Spudded 6:00 PM 8-26-71. Set 20" conductor at 20' and cemented w/3 cu. yds Redi-Mix. Drilled 17 1/2" hole to 183', ran 13-3/8", H-40, 48# casing and cmtd w/300 sxs cmt & tested to 500#. Held OK. Circulated cmt.

Drilled 12 1/2" hole to 1800'. Ran 9-5/8", 36#, K55 casing to 1797' & cmtd w/1400 sxs cmt, did not circulate. Cemented thru 1" tubing in annulus in 4 stages of 100 sxs, 125 sxs, 200 sxs and 100 sxs. Cement filled to surface - hole stood full. Tested to 1000# for 30 min, held OK.

Drilled 8-3/4" hole to 9380'. Ran 5 1/2" 17#, N80 & 15.5# K55 casing to 9379'. Cemented in 2 stages w/1985 sxs. Cement circulated.

Perforated 6600-6563 with one shot per foot shaped charges. Treated with 500 gals. 15% acid and 5500 gals. 20% acid. Ran 2-3/8" tubing with packer set at 8905'. Perforated 9052-9038 with one shot per foot.

ROP 20.5 MM/day Wolfcamp  
2.0 MM/day Wagonwheel

BEFORE EXAMINER NUTTE  
OIL CONSERVATION COMMISSION  
CAGE NO. #34629

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Production Service Supervisor

DATE November 18, 1971

(This space for Federal or State office use)

APPROVED BY

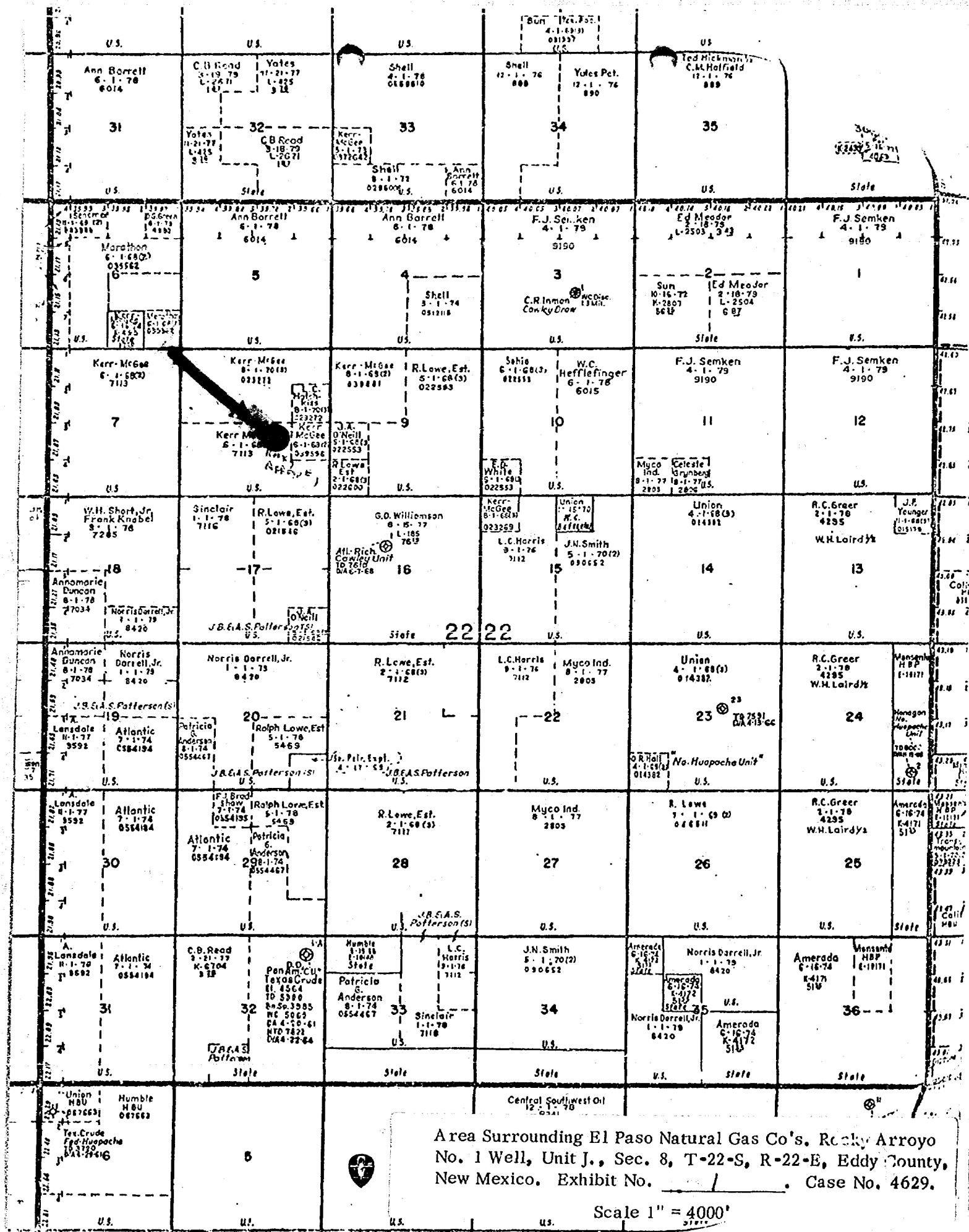
TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE

\*See Instructions on Reverse Side

Ex. No. 3



Case 4629  
**RECEIVED**  
NOV 2 1971  
NEW MEXICO OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
APPLICATION FOR MULTIPLE COMPLETION

Form O-107  
5-1-61

**RECEIVED**

Set for hearing

OIL CONSERVATION COMM.  
SANTA FE

NOV 1 1971

Operator <b>El Paso Natural Gas Company</b>		County <b>Eddy</b>	Date <b>October 29, 1971</b>
Address <b>600 Building of the Southwest</b>		Lease <b>O. C. C. Rocky Arroyo</b>	Well No. <b>1</b>
Location of Well <b>J</b>	Section <b>8</b>	Township <b>22-S</b>	Range <b>22-E</b>

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES \_\_\_\_\_ NO X
2. If answer is yes, identify one such instance: Order No. \_\_\_\_\_; Operator Lease, and Well No.: \_\_\_\_\_

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Wolfcamp Reef		Lower Morrow
b. Top and Bottom of Pay Section (Perforations)	6563-6600		8956-8965 9038-9052
c. Type of production (Oil or Gas)	GAS		GAS
d. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING

4. The following are attached. (Please check YES or NO)

- |                                     |                                     |   |
|-------------------------------------|-------------------------------------|---|
| Yes                                 | No                                  |   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1A. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)   |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

NA

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES \_\_\_\_\_ NO \_\_\_\_\_. If answer is yes, give date of such notification NA.

CERTIFICATE: I, the undersigned, state that I am the Supervisor Prod. Service of the El Paso Natural Gas Co. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature

**DOCKET**  
11-18-71  
\*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard perforation unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

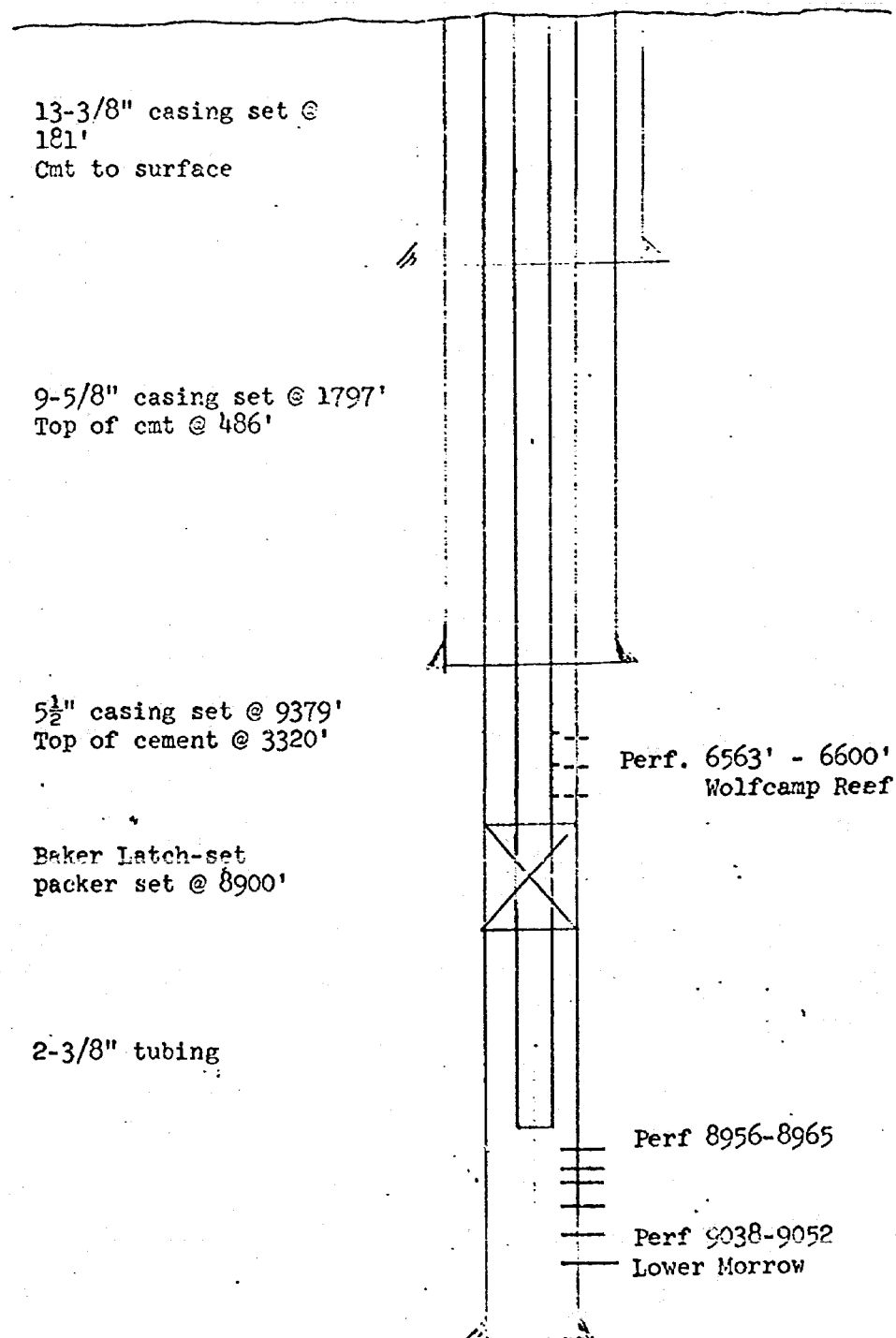
*Case 4629*  
**RECEIVED**

NOV 2 1971

OIL CONSERVATION COMM.  
SANTA FE

DIGRAMMATIC SKETCH

EPING ROCKY ARROYO NO. 1 WELL  
Section 8, T-22-S, R-22-E,  
Eddy County, New Mexico



NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-122  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Case 4629

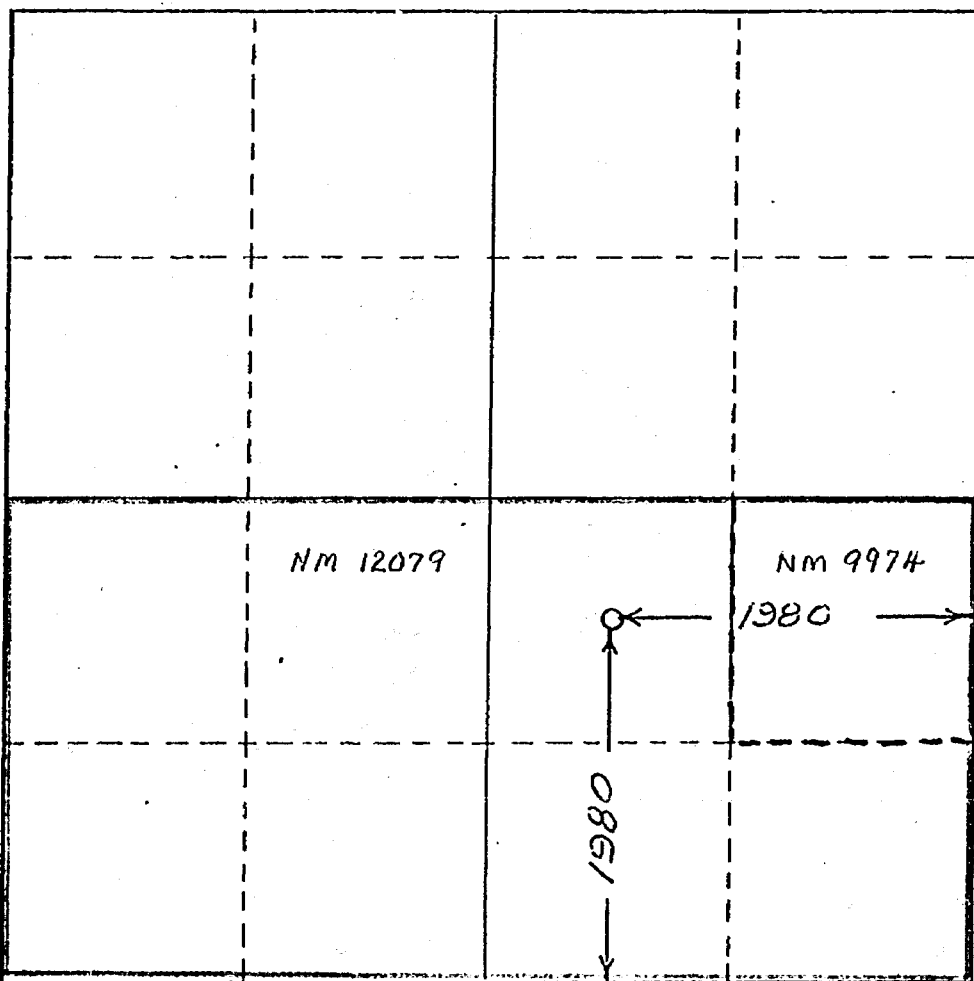
Operator El Paso Natural Gas Co.		Lease Rocky Arroyo		Well No. #1
Section J	Section 8	Township 22 South	Range 22 East	County Eddy
Acres Dedicated to Well: 1980 South 1980 East				
Ground Level Elev. 4393.0	Producing Formation	Pool Wildcat	Dedicated Acreage 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☒ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) Tract will be communitized when production zones under tract are known.

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*[Signature]*

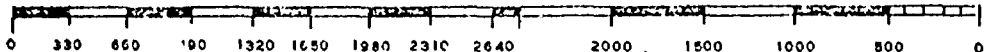
Name  
Production Clerk  
Position  
El Paso Natural Gas Co.  
Company  
August 11, 1971  
Date

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
8-5-1971  
Registered Professional Engineer  
and/or Land Surveyor

*[Signature]*

Certificate No.  
2126



DRAFT

GMH/dr

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

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

*Handwritten signature*  
CASE No. 4629

Order No. R-4229

*Handwritten signature*  
APPLICATION OF EL PASO NATURAL GAS COMPANY  
FOR A DUAL COMPLETION, EDDY COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on  
December 1, 1967, at Santa Fe, New Mexico, before Examiner  
Daniel S. Nutter.

NOW, on this        day of December, 1967, the Commission,  
a quorum being present, having considered the testimony, the record,  
and the recommendations of the Examiner, 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 Natural Gas Company,  
seeks authority to complete its Rocky Arroyo well  
Well No. 1, located in Unit J of Section 8, Township  
22 South, Range 22 East, NMPM, Eddy County, New  
~~XXXXXX~~ ~~West~~ (conventional) ~~XXXX~~  
Mexico, as a dual completion ~~(combination)~~ to produce gas  
~~(tubingless)~~  
from ~~the~~ <sup>an</sup> ~~gas~~ <sup>undesignated</sup> Morrow Gas Pool through <sup>2 3/8 inch</sup> tubing  
and <sup>gas</sup> ~~an~~ <sup>from</sup> ~~an~~ undesignated Wolfcamp gas pool through the casing-tubing  
annulus, with separation of zones by a packer set at  
approximately 8900 feet.

(3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, El Paso Natural Gas Company, is hereby authorized to complete its Rocky Arroyo Well No. 1, located in Unit J of Section 88, Township 22 ~~North~~ <sup>South</sup>, Range 22 East, NMPM, Eddy County, New Mexico, as a dual completion <sup>(conventional)</sup> ~~(combination)~~ <sup>xxx</sup> to produce gas ~~(tubingless)~~ <sup>2 3/4" inch</sup> from ~~the~~ <sup>an</sup> undesigned Morrow Gas Pool through tubing and <sup>gas from</sup> ~~an~~ undesigned Wolfcamp gas pool through the casing-tubing annulus, with separation zones by a packer set at approximately 8900 feet.

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 insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take ~~zone segregation~~ packer-leakage tests upon completion and annually thereafter during the Annual <sup>Shut-in Pressure</sup> ~~Gas-Oil Ratio~~ Test Period for the undesigned Morrow Gas Pool. ~~Deliverability~~

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

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.