

CASE NO.

5524

APPLICATION,
TRANSCRIPTS,
SMALL EXHIBITS,
ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
July 16, 1975

EXAMINER HEARING

IN THE MATTER OF:)

Application of El Paso Natural Gas)
Company for a dual completion, San)
Juan County, New Mexico.)

Case No.
5524

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil
Conservation Commission

William Carr, Esq.
Legal Counsel for the
Commission
Santa Fe, New Mexico.

For the Applicant:

Montgomery, Federici,
Andrews, Hannahs and Buell
350 E. Palace Avenue
Santa Fe, New Mexico.
(No Appearance)

and

Randy Waldman, Esq.
El Paso Natural Gas Co.
El Paso, Texas.

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TEL. (505) 982-0386

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MR. NUTTER: Call Case 5524.

MR. CARR: Case 5524. Application of El Paso Natural Gas Company for a dual completion, San Juan County, New Mexico.

MS. WALDMAN: Mr. Examiner, I'm Randy Waldman, Counsel with El Paso Natural Gas Company; I have one witness. I believe an appearance has already been entered on my behalf by Sumner Buell.

MR. CARR: Will the Witness please stand and be sworn.

(Witness sworn.)

PAUL W. BURCHALL

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

DIRECT EXAMINATION

BY MS. WALDMAN:

Q Would you please state your name and where you reside?

A My name is Paul W. Burchall and I reside in El Paso, Texas.

Q By whom are you employed and in what capacity?

A I am employed by the El Paso Natural Gas Company as a Senior Proration Engineer.

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Q Have you previously testified before this Commission?

A No, I haven't.

Q Mr. Burrell, will you please tell us a little bit about your educational background?

A I graduated from the Montana School of Mines in 1956 with a Bachelor of Science Degree in Petroleum Engineering.

Q And what have you done in the petroleum industry before and since that time?

A During the summers from 1952 and 1955, I rough-necked in the oil fields around Cutbank, Montana, and I worked for Stanolind Oil Company as a roust-about in their Salt Creek Field in Wyoming. Upon graduation in 1956, I went to work for Texaco, Incorporated, in their Production Department and I worked throughout all the Rocky Mountain States before being sent to their firm's Salt Lake Exploration Office, I believe around 1960. Then two years later I accepted a position with the Utah State Department of Natural Resources Division of Oil and Gas Conservation as Chief Petroleum Engineer. I served in this capacity for 12 years until the end of 1974, whereupon I went to work for El Paso Natural Gas.

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Q Are you familiar with El Paso's Application in Case 5524?

A Yes, I am.

MS. WALDMAN: Mr. Examiner, are the Witness' qualifications acceptable?

MR. NUTTER: Yes, they are.

MS. WALDMAN: Thank you.

BY MS. WALDMAN:

Q Mr. Burchell, would you please state what El Paso Natural Gas is seeking in this Application?

A Mr. Examiner, El Paso Natural Gas drilled their San Juan 32-9 Unit Well No. 84 in Section 14, Township 31 North, Range 10 West, San Juan County, New Mexico, and we completed it in a conventional manner in both the tertiary San Jose-Nacimiento undifferentiated formation and the cretaceous Pictured Cliffs. It is the purpose of El Paso here today to seek approval from the Commission to dually complete this well from both zones in such a manner as to produce gas from the undesignated San Jose-Nacimiento undifferentiated formation and the Pictured Cliffs through the tubing and a tubing-casing annulus respectively.

Q Now, Mr. Burchell, I would like you to look at

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what has been marked El Paso's Exhibit No. 1, and I would like you to identify it please.

A Mr. Examiner, this Exhibit No. 1 is a plat showing the location of the dually completed El Paso Natural Gas Company San Juan 32-9 Unit No 84 Well and it shows the offset acreage and other Pictured Cliffs wells. The No. 84 Well is in the southwest of Section 14, Township 31 North Range 10 West, and is designated by an arrow pointing to it.

Q Now, Mr. Burchell, I call your attention to what has been marked as El Paso's Exhibit No. 2 and ask you to explain it also.

A Exhibit No 2 is a reproduction of a log run on the San Juan 32-9 Unit No. 84 Well. The log is a thermal neutron time survey conducted by Schlumberger. The geologic tops are shown in the middle or depth column and are picked as follows: From the surface to 1460 feet is the San Jose-Nacimiento undifferentiated formation and at 1460 feet is the base of the Nacimiento and the top of the Ojo Alamo. The top of the Kirkland is picked at 1582 feet and the top of the Fruitland is at 2705 feet. The top of the Pictured Cliffs is found at 3044 feet with that of the Lewis at 3150 feet.

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In addition the log shows the zones where the most promising accumulation of hydrocarbons occurred and where these zones are perforated. The San Jose-Nacimiento was shot from 978 feet to 990 feet, and the Pictured Cliff Formation was shot from 3050 feet to 3075 feet.

Q Okay. Now, Mr. Burchell, with regard to what has been marked El Paso's Exhibit 3 in this case, would you please identify it and briefly explain the drilling and completion technique used by El Paso in this well?

A Yes. Exhibit No. 3 is a diagrammatic sketch showing the equipment in the El Paso Natural Gas San Juan 32-9 Unit No. 84 Well. Mr. Examiner, on January the 17th, 1975, the well was spudded and 8-5/8th-inch surface casing was set at 124 feet with 112-cubic feet of cement which was circulated to the surface. After waiting on the cement to set for 12 hours it was pressure tested to 600 pounds per square inch for 30 minutes, which held. A 7-7/8th-inch hole was then drilled with water to 990 feet whereupon the well unloaded and came in and it was necessary to mix mud of sufficient weight to kill the hole. At that time a 6-3/4th-inch hole was then drilled from 990 feet to a total depth of 3225 feet; a string of 4-1/2-inch production casing was run and set at 3195 feet with 938-cubic feet of

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cement and eight hours later a temperature survey was run which found the top of the cement behind the 4-1/2-inch casing at 350 feet. Approximately four days later the casing was tested to 4000 pounds, which held, and the Pictured Cliffs formation was then perforated from 3050 to 3075 feet with 12 shots. The formation was fractured with 36,000 pounds of ten-twenty sand and 37,548 gallons of treated water. The Nacimiento-San Jose was perforated from 978 feet to 990 feet with six shots; the formation was then fractured with 4000 pounds of ten-twenty sand and 5000 gallons of treated water. Ninety-five joints of 1-1/2-inch tubing was then set at 3075 feet with a half nipple and pump-out plug on the bottom of the first joint with a Model B Packet set at 1216 feet.

The test of the San Jose-Nacimiento undifferentiated formation calculated an absolute open flow of 1422 mcf of gas per day where the test of the Pictured Cliffs formation calculated an absolute open flow of 5972 mcf per day.

Q Mr. Burchell, would you say that this well was completed in a conventional manner using good oil-field practice in a workman-like manner?

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A Yes, I do.

Q At the time of obtaining initial potential for each of the zones in this well, were pressures measured to verify that they were separated, the two zones were separated?

A Yes, they were.

Q Would you elaborate on that for us?

A Mr. Examiner, on May 28, 1975, the 16-day shut-in casing pressure on the San Jose-Nacimiento undifferentiated formation was 419 pounds per square-inch gauge while the shut-in tubing pressure on the Pictured Cliffs formation was 900 pounds per square-inch gauge. Flowing the lower Pictured Cliff zone through the tubing did not cause a pressure drop in the upper Nacimiento-San Jose formation. On June the 5th, 1975, the 24-day shut-in casing pressure on the San Jose-Nacimiento formation was 415 pounds per square inch and the 8-day shut-in pressure of the Pictured Cliffs was 909 pounds per square-inch gauge. Flowing the upper San Jose-Nacimiento through the tubing-casing annulus did not cause a pressure drop in the lower Pictured Cliffs formation.

Q In your opinion, does the manner in which the

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San Jose No. 84 Well was completed comply with New Mexico Oil Conservation Commission Rules and Regulations?

A Yes, they do. The manner in which this well has been duly completed will allow both zones to be produced safely and efficiently with complete separation between zones.

Q And the gas will be measured through separate meters?

A Yes the gas will be measured through both zones through separate meters.

Q In your opinion will the granting of this Application result in the protection of correlative rights and prevention of waste?

A I do believe so.

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

A Yes, they were.

MS. WALDMAN: Mr. Examiner, at this time I would like to move to introduce El Paso's Exhibits Nos. 1, 2, and 3.

MR. NUTTER: El Paso's Exhibits Nos. 1 through 3 will be admitted into evidence.

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(Whereupon, El Paso's Exhibits
Nos. 1, 2, and 3 were admitted into
evidence.)

MS. WALDMAN: This completes our direct testimony in this case.

CROSS EXAMINATION

BY MR. NUTTER:

Q How do you spell your name, please?

A Paul W. Burchell. The last name is B-U-R-C-H-E-L-L.

Q Mr. Burchell, do you have a formation pressure
for these two zones?

A The formation pressure, as I indicated in my
testimony, is only that which is gauged at the surface.

Q And you haven't calculated a formation pressure?

A I was not anticipating that and I did not calculate it.

Q Are there any other wells in this area which
are producing from this Nacimiento-San Jose undifferentiated area?

A Mr. Examiner, to the best of my knowledge, in
this particular general area there is no other well producing from this shelf of tertiary beds.

Q Then this production obviously came as a

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surprise to you because you were drilling with water and the thing unloaded?

A Yes, that is certainly true.

Q Has the well been on production yet from either zone?

A If my information is correct I believe the Pictured Cliffs has produced.

Q I see. So you don't know yet whether this Nacimiento area is going to hold up as far as productivity is concerned?

A No, I don't, sir.

MR. NUTTER: Are there any further questions of the Witness? He may be excused. Do you have anything further, Ms. Waldman?

MS. WALDMAN: No, I don't.

MR. NUTTER: Does anyone have anything to offer in Case No. 5524? We will take the case under advisement.

STATE OF NEW MEXICO)

COUNTY OF SANTA FE)

SS.

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
RICHARD L. NYE, Court Reporter

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5524, heard by me on July 16, 1975.
Richard L. Nye, Examiner
New Mexico Oil Conservation Commission

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87501

July 23, 1975

El Paso Natural Gas Co.

JOE D. RAMEY
Secretary-Director

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. 5524
Order No. R-5070

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

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on
July 16, 1975, at Santa Fe, New Mexico, before Examiner
Daniel S. Nutter.

NOW, on this 22nd day of July, 1975, 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 San Juan 32-9 Unit Well
No. 84, located in Unit N of Section 14, Township 31 North,
Range 10 West, NMPM, San Juan County, New Mexico, as a dual
completion (conventional) to produce gas from an undesignated
Nacimiento gas pool through the casing-tubing annulus and gas
from an undesignated Pictured Cliffs gas pool through tubing,
with separation of the zones achieved by means of a packer set
at approximately 1216 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 San Juan 32-9 Unit

-2-

Case No. 5524
Order No. R-5070

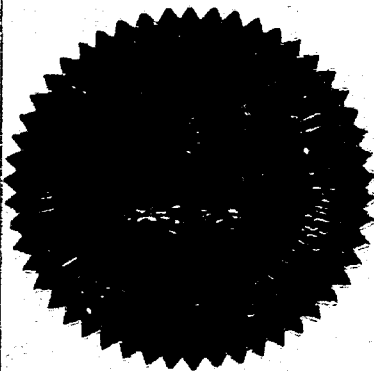
Well No. 84, located in Unit N of Section 14, Township 31 North, Range 10 West, NMPM, San Juan County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Nacimiento gas pool through the casing-tubing annulus and gas from an undesignated Pictured Cliffs gas pool through tubing, with separation of the zones by means of a packer set at approximately 1216 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 Deliverability Test Period for the Pictured Cliffs 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

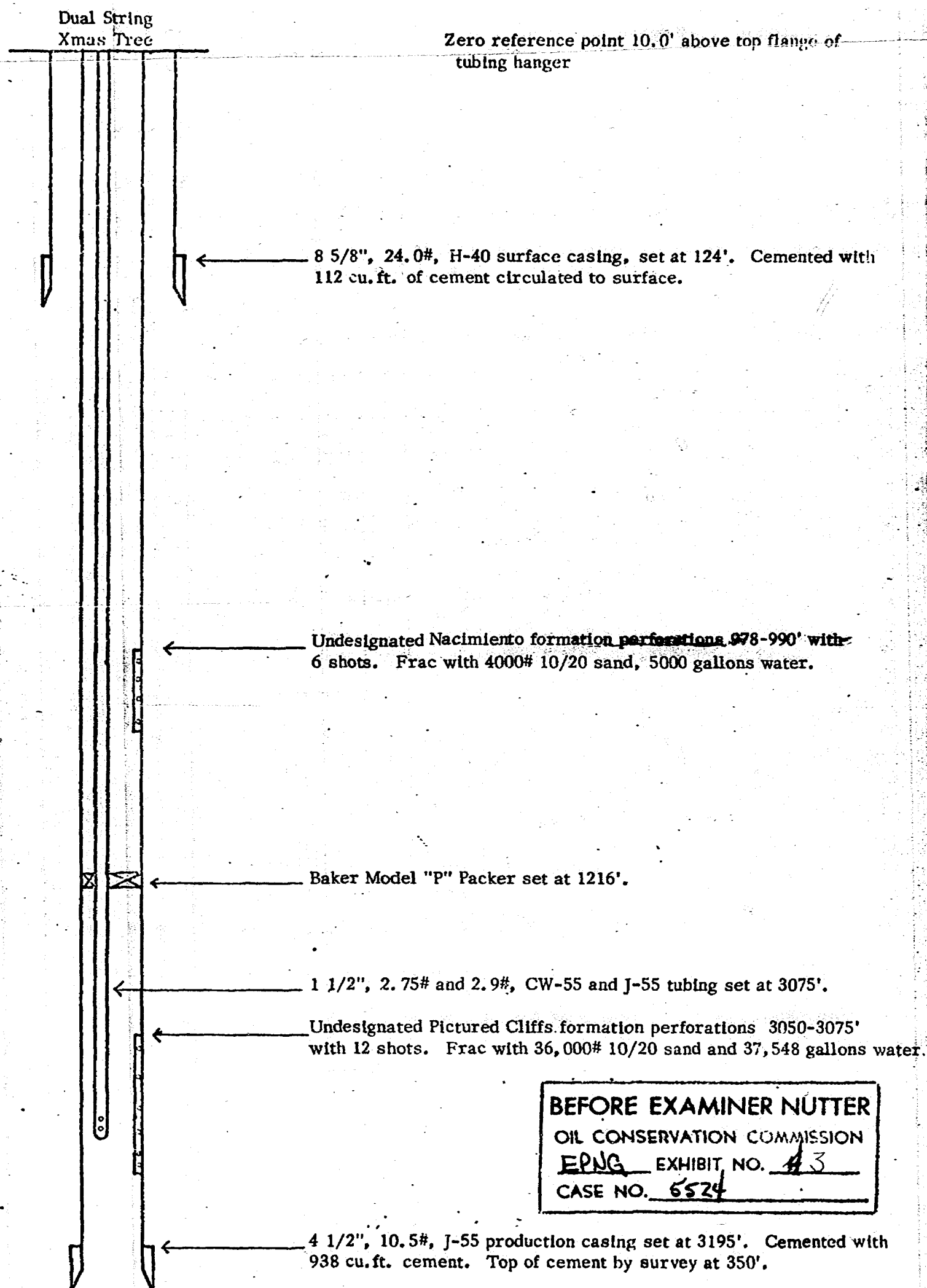
Phil R. Lucero
PHIL R. LUCERO, Member

Joe D. Ramey
JOE D. RAMEY, Member & Secretary

S E A L

dr/

Schematic Diagram of Dually Completed
El Paso Natural Gas Company San Juan 32-9 Unit #84 (NA-PC)
SW/4 Section 14, T-31-N, R-10-W



BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EPNG EXHIBIT NO. 43
CASE NO. 6524

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

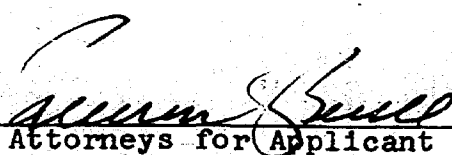
IN THE MATTER OF THE APPLICATION
OF EL PASO NATURAL GAS COMPANY
FOR A DUAL COMPLETION,
SAN JUAN COUNTY, NEW MEXICO.

Case No. 5524

ENTRY OF APPEARANCE

Comes now MONTGOMERY, FEDERICI, ANDREWS, HANNAHS &
BUELL, and enters its appearance on behalf of the
Applicant, EL PASO NATURAL GAS COMPANY.

MONTGOMERY, FEDERICI, ANDREWS,
HANNAHS & BUELL

By 
Attorneys for Applicant
Post Office Box 2307
Santa Fe, New Mexico 87501
982-3875

J. O. SETH (1883-1963)

A. K. MONTGOMERY
WM. R. FEDERICI
FRANK ANDREWS
FRED C. HANNAHS
SUMNER G. BUELL
SETH D. MONTGOMERY
FRANK ANDREWS III
OWEN M. LOPEZ
JEFFREY R. BRANNEN
JOHN BENNETT POUND
GARY R. KILPATRICK

MONTGOMERY, FEDERICI, ANDREWS, HANNAHS & BUELL

ATTORNEYS AND COUNSELORS AT LAW

350 EAST PALACE AVENUE
SANTA FE, NEW MEXICO 87501

POST OFFICE BOX 2307
AREA CODE 505
TELEPHONE 982-3875

July 9, 1975

New Mexico Oil Conservation
Commission
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: In the Matter of the Application
of El Paso Natural Gas Company
for a dual completion, San Juan
County, New Mexico; Commission
Case No. 5524

Gentlemen:

Please file the enclosed Entry of Appearance in
above-referenced case on behalf of the Applicant.

Yours truly,

Sumner G. Buell ret

SGB/vt
Enclosure
#5086-75-6

Correction of formation name phoned in by
Emery Arnold 7-10-75. RLS

Docket No. 17-75

Dockets Nos. 18-75 and 19-75 are tentatively set for hearing on July 30 and August 13, 1975. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 16, 1975

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 Richard L. Stamets, Alternate Examiner:

- ALLOWABLE:
- (1) Consideration of the allowable production of gas from seventeen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico, for July, 1975;
 - (2) Consideration of the allowable production of gas from five prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico, for July, 1975.

CASE 5523: Application of Burleson & Huff for an unorthodox gas well location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to simultaneously dedicate a previously approved non-standard gas proration unit comprising the W/2 SW/4 and SE/4 SW/4 of Section 21, Township 25 South, Range 37 East, Jalmat Gas Pool, Lea County, New Mexico, to its Lanehart Well No. 1, located at a standard location for said unit, and its Well No. 3, located 2310 feet from the South line and 990 feet from the West line of said Section 21.

CASE 5524: Application of El Paso Natural Gas Company for a dual completion, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its San Juan 32-9 Unit Well No. 84, located in Unit N of Section 14, Township 31 North, Range 10 West, San Juan County, New Mexico, to produce gas from an undesignated ~~San Juan~~ pool through the casing-tubing annulus and gas from an undesignated Pictured Cliffs pool through tubing.

Nacimiento

CASE 5525: Application of Amoco Production Company for amendment of Order No. R-4983, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Commission Order No. R-4983 to provide for the continuance of its pilot pressure maintenance project for its Navajo Tribal lease Well No. U-3, located in Unit M of Section 16, for a period of 120 days and to expand said project to include its Wells Nos. N-6 and N-12, located, respectively, in Units G and I of Section 17, all in Township 26 North, Range 18 West, Tocito Dome-Pennsylvanian "D" Oil Pool, San Juan County, New Mexico. Applicant further seeks an administrative procedure to extend the 120-day period without notice and hearing.

Dockets Nos. 18-75 and 19-75 are tentatively set for hearing on July 30 and August 13, 1975. Applications for hearing must be filed at least 22 days in advance of hearing date.

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CASE 5525: Application of Amoco Production Company for amendment of Order No. R-4983, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Commission Order No. R-4983 to provide for the continuance of its pilot pressure maintenance project for its Navajo Tribal lease Well No. U-3, located in Unit M of Section 16, for a period of 120 days and to expand said project to include its Wells Nos. N-6 and N-12, located, respectively, in Units G and I of Section 17, all in Township 26 North, Range 18 West, Tociito Dome-Pennsylvanian "D" Oil Pool, San Juan County, New Mexico. Applicant further seeks an administrative procedure to extend the 120-day period without notice and hearing.

6/19
Emery called -
no other production
similar.

El Paso called -
They say hearing on
7/16 O.K.

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

RECEIVED
JUN 18 1975
Form C-107
1-61
Case 5524

Operator El Paso Natural Gas Company		County San Juan	Date June 16, 1975
Address PO Box 990, Farmington, NM 87401		Lease San Juan 32-9 Unit	Well No. 84 (SJ-PC)
Location of Well N	Unit 14	Township 31N	Range 10W

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	Undesignated San Jose		Undesignated Pictured Cliffs
b. Top and Bottom of Pay Section (Perforations)	978 - 990'		3050-3075'
c. Type of production (Oil or Gas)	gas		gas
d. Method of Production (Flowing or Artificial Life)	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"/> | c. 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 type="checkbox"/> | <input checked="" 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 112A.) |

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

Southern Union Gas Company, Fidelity Union Tower, 1507 Pacific Ave., Dallas, TX 75201

Amoco Production, Security Life Building, Denver, CO 80203

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

CERTIFICATE: I, the undersigned, state that I am the **Drilling Clerk** 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.

Carl Mathews
Signature

*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.

Adopted
1-1-65NEW MEXICO OIL CONSERVATION COMMISSION
PACKER SETTING REPORT

I, Anchor E. Holm, being of lawful age and having full
Name of party making report
knowledge of the facts hereinbelow set out do state:

That I am employed by El Paso Natural Gas Company in the capacity of
Drilling Engineer, that on April 29, 19 75

I personally supervised the setting of a Baker Model "P" Packer
Make & type of packer
in El Paso Natural Gas, San Juan 32-9 Unit,
Operator of well Lease name
Well no. 84 located in the Undes San Jose-Undes PC field,
San Juan county, state of New Mexico, at a subsurface depth of
1216 feet, said depth measurement having been furnished me by
tubing strap;

That the purpose of setting this packer was to effect a seal in the annular space between two strings of pipe where the packer was set so as to prevent the commingling, in the bore of this well, of fluids produced from a stratum below the packer with fluids produced from a stratum above the packer; that this packer was properly set and that it did, when set, effectively and absolutely seal off the annular space between the two strings of pipe where it was set in such manner as that it prevented any movement of fluids across the packer.

Anchor E. Holm
(Signature)

Drilling Engineer

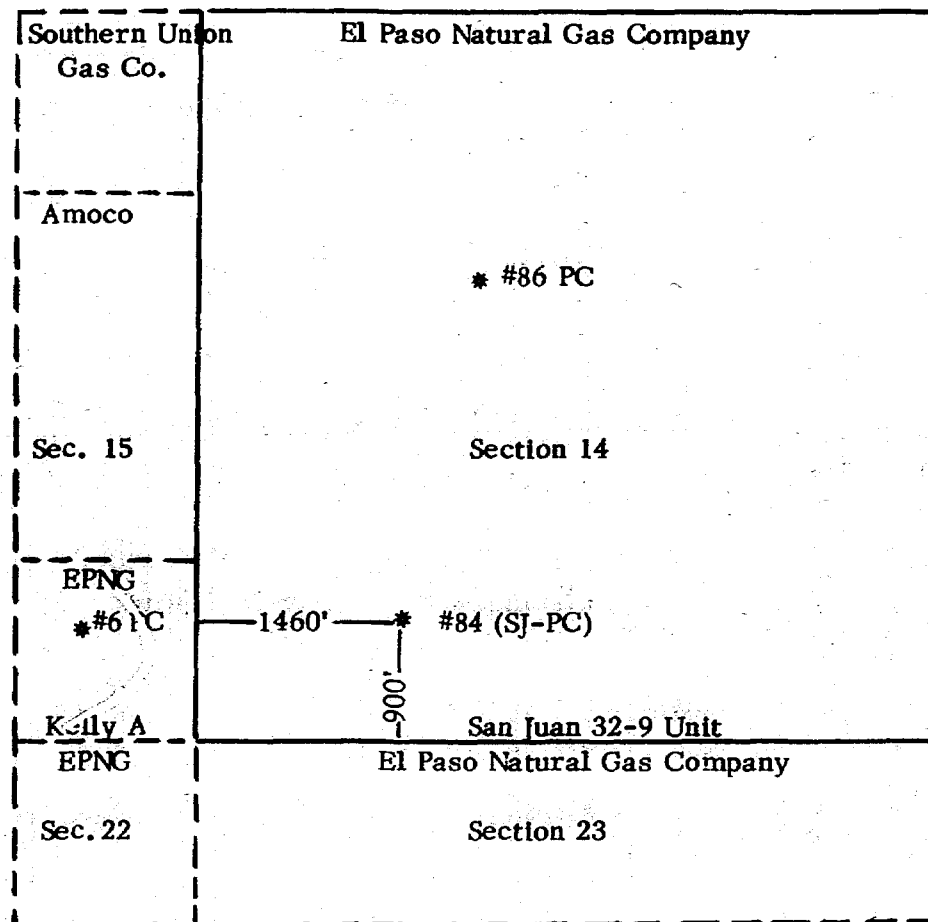
(Title)

June 11, 1975

(Date)

Plat Showing Location of Dually Completed
El Paso Natural Gas Company San Juan 32-9 Unit #84 (SJ - PC)
and Offset Acreage

R-10-W

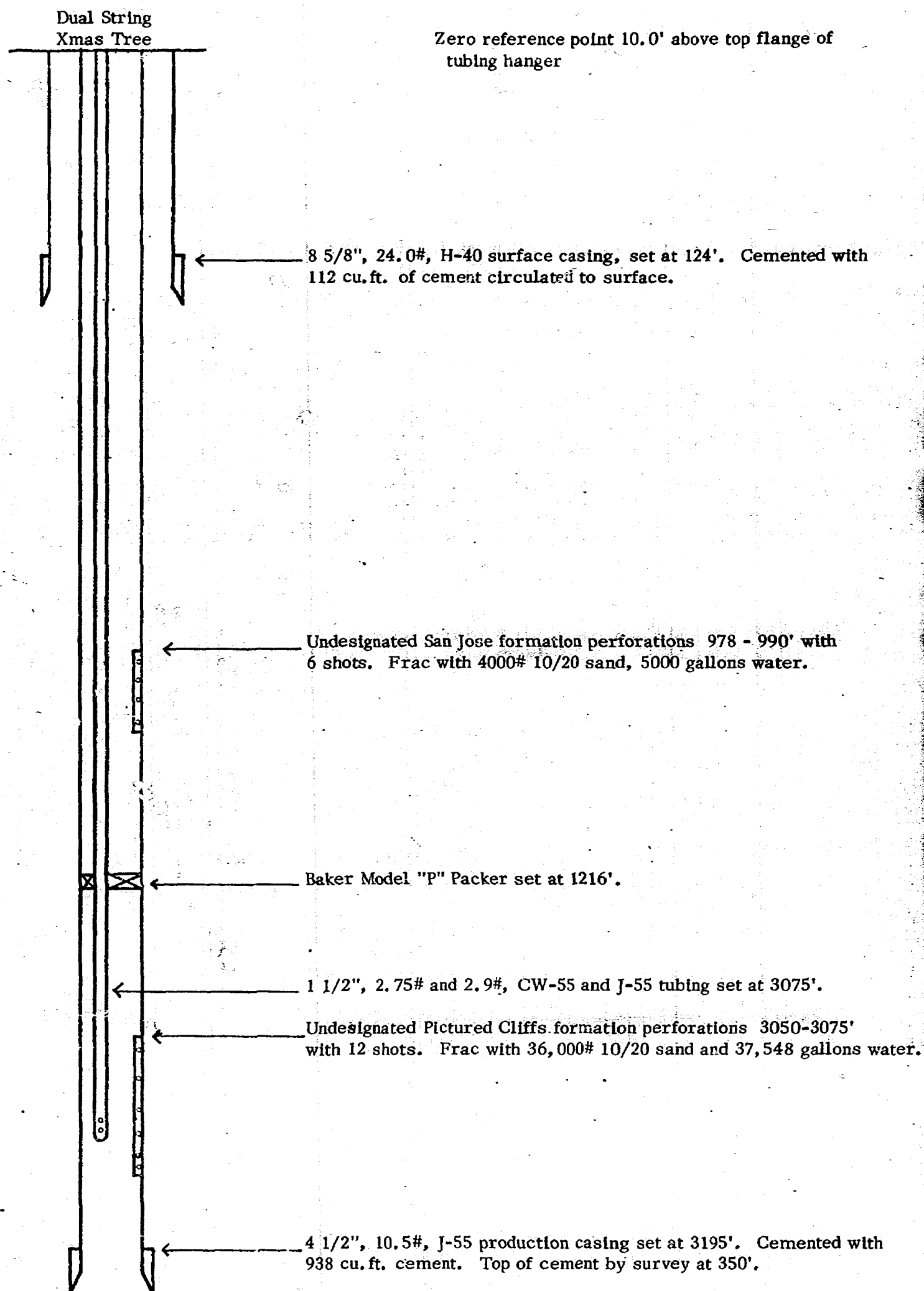


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31
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EL PASO NATURAL GAS COMPANY

SCALE	DATE	No.
DRAWN BY	CHECKED BY	

Schematic Diagram of Dually Completed
El Paso Natural Gas Company San Juan 32-9 Unit #84 (SJ-PC)
SW/4 Section 14, T-31-N, R-10-W



NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Case 5594
Form C-107
3-7-61
JUN 18 1975

Operator El Paso Natural Gas Company		County San Juan		Date June 16, 1975	
Address PO Box 990, Farmington, NM 87401		Lease San Juan 32-9 Unit		Well No. 84 (SJ-PC)	
Location of Well N	Unit 14	Section 31N	Township 10W	Range 10W	

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	Undesignated San Jose		Undesignated Pictured Cliffs
b. Top and Bottom of Pay Section (Perforations)	978 - 990'		3050-3075'
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"/> | c. 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 type="checkbox"/> | <input checked="" 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.

Southern Union Gas Company, Fidelity Union Tower, 1507 Pacific Ave., Dallas, TX 75201

Amoco Production, Security Life Building, Denver, CO 80203

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

CERTIFICATE: I, the undersigned, state that I am the Drilling Clerk 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.

A. G. Dices
Signature

*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.

Adopted
1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
PACKER SETTING REPORT

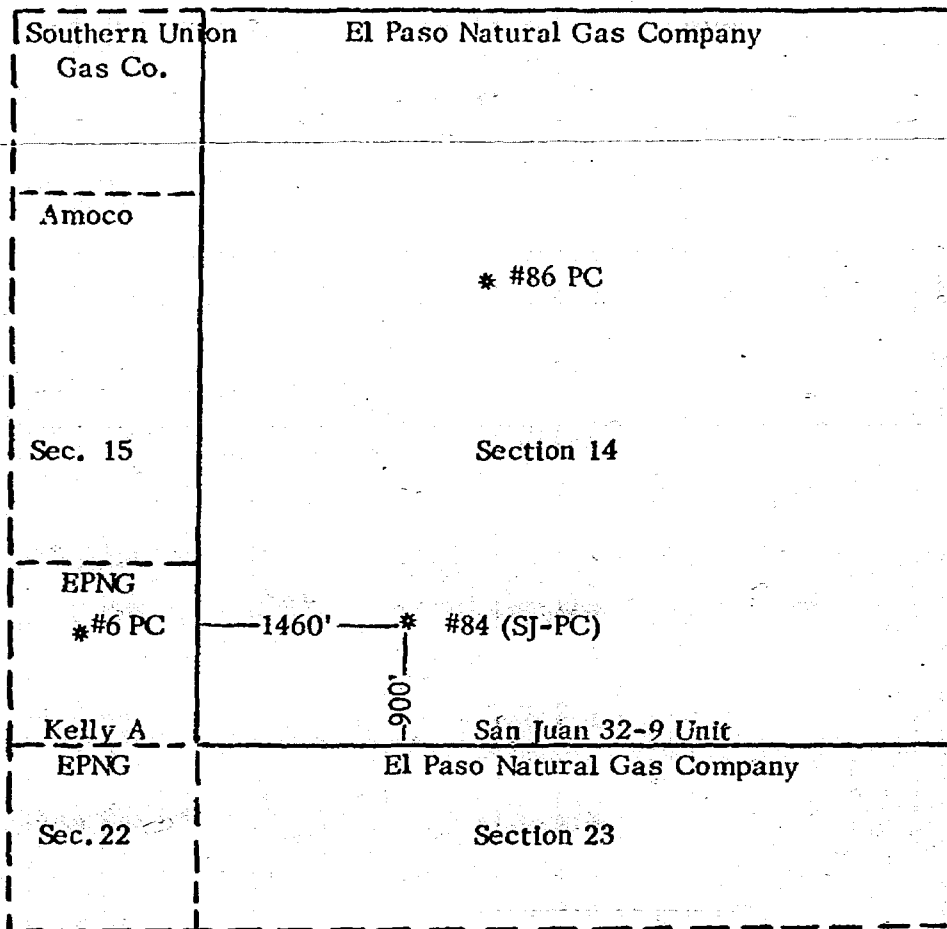
I, Anchor E. Holm, being of lawful age and having full
Name of party making report
knowledge of the facts hereinbelow set out do state:
That I am employed by El Paso Natural Gas Company in the capacity of
Drilling Engineer, that on April 29, 19 75
I personally supervised the setting of a Baker Model "p" Packer
Make & type of packer
in El Paso Natural Gas, San Juan 32-9 Unit,
Operator of well Lease name
Well no. 84 located in the Undes San Jose-Undes PC field,
San Juan county, state of New Mexico, at a subsurface depth of
1216 feet, said depth measurement having been furnished me by
tubing strap;

That the purpose of setting this packer was to effect a seal in the annular space between two strings of pipe where the packer was set so as to prevent the commingling, in the bore of this well, of fluids produced from a stratum below the packer with fluids produced from a stratum above the packer; that this packer was properly set and that it did, when set, effectively and absolutely seal off the annular space between the two strings of pipe where it was set in such manner as that it prevented any movement of fluids across the packer.

Anchor E. Holm
(Signature)
Drilling Engineer
(Title)
June 11, 1975
(Date)

Plat Showing Location of Dually Completed
El Paso Natural Gas Company San Juan 32-9 Unit #84 (SJ - PC)
and Offset Acreage

R-10-W



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EL PASO NATURAL GAS COMPANY

SCALE

DATE

No.

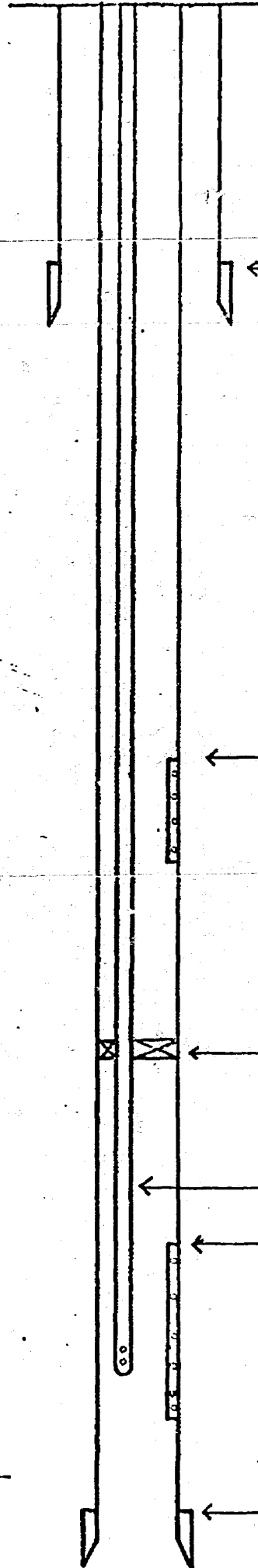
DRAWN BY

CHECKED BY

Schematic Diagram of Dually Completed
El Paso Natural Gas Company San Juan 32-9 Unit #84 (SJ-PC)
SW/4 Section 14, T-31-N, R-10-W

Dual String
Xmas Tree

Zero reference point 10.0' above top flange of
tubing hanger



8 5/8", 24.0#, H-40 surface casing, set at 124'. Cemented with
112 cu. ft. of cement circulated to surface.

Undesignated San Jose formation perforations 978 - 990' with
6 shots. Frac with 4000# 10/20 sand, 5000 gallons water.

Baker Model "P" Packer set at 1216'.

1 1/2", 2.75# and 2.9#, CW-55 and J-55 tubing set at 3075'.

Undesignated Pictured Cliffs formation perforations 3050-3075'
with 12 shots. Frac with 36,000# 10/20 sand and 37,548 gallons water.

4 1/2", 10.5#, J-55 production casing set at 3195'. Cemented with
938 cu. ft. cement. Top of cement by survey at 350'.

OIL CONSERVATION COMMISSION
3 DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE 6-17-75

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated June 16, 1975
for the El Paso Natural Gas Co San Juan 32-9 Unit N-1431N-10W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

~~Set~~ Set for hearing as required by
rules -

Yours very truly,

Emory C. Lewis

RECEIVED
JUN 19 1975
OIL CONSERVATION COMM.
Santa Fe

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Case 5524
Form C-107
5-1-61

Operator El Paso Natural Gas Company		County San Juan	Date June 16, 1975
Address PO Box 990, Farmington, NM 87401		Lease San Juan 32-9 Unit	Well No. 84 (SJ-PC)
Location of Well N	Unit 14	Township 31N	Range 10W

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	Undesignated San Jose		Undesignated Pictured Cliffs
b. Top and Bottom of Pay Section (Perforations)	978 - 990'		3050-3075'
c. Type of production (Oil or Gas)	gas		gas
d. Method of Production (Flowing or Artificial Lift)	flowing		flowing

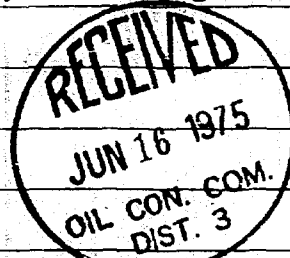
4. The following are attached. (Please check YES or NO)

- | | | |
|-------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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"/> | c. 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 type="checkbox"/> | <input checked="" 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.

Southern Union Gas Company, Fidelity Union Tower, 1507 Pacific Ave., Dallas, TX 75201

Amoco Production, Security Life Building, Denver, CO 80203



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

CERTIFICATE: I, the undersigned, state that I am the **Drilling Clerk** 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.

D. G. Diaco
Signature

*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 proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

DRAFT

dr/

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. 5524

Order No. R- 5070

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

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on
July 16, 1975, at Santa Fe, New Mexico, before
Examiner Daniel S. Nutter.

NOW, on this day of July, 1975, 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 San Juan 32-9 Unit
Well No. 84, located in Unit N of Section 14, Township
31 North, Range 10 West, NMPM, San Juan County, New
Mexico, as a dual completion (conventional) to produce gas
from an undesigned ~~San Jose Pool~~ ^{Nacimiento gas pool} through the casing-tubing
annulus and gas from an undesigned Pictured Cliffs ~~pool~~ ^{gas pool} through
tubing, with separation of the zones achieved
by means of a packer set at approximately
1216 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 San Juan 32-9 Unit Well No. 84, located in Unit N of Section 14, Township 31 ~~South~~ North' Range 10 ~~East~~ West' NMPM, San Juan County, New Mexico, as a dual completion ^(conventional) ~~to produce gas~~ to produce gas from ~~the~~ ^{Nacimiento gas pool} an undesignated ~~San Jose Pool~~ through the casing-tubing annulus and gas from an undesignated ^{gas pool} ~~Pictured Cliffs Pool~~ through tubing, *with separation of the zones by means of a packer set at approximately 1216 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 ~~zone segregation~~ take packer-leakage tests upon completion and annually thereafter during the Annual ~~Gas-Oil Ratio~~ Test Period for the Pictured Cliffs 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.