

CASE 1718: Application of W. H. H. H.

Case No.

1713

Application, Transcript,
Small Exhibits, Etc.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

IN THE MATTER OF:

CASE 1713

TRANSCRIPT OF HEARING

JULY 8, 1959

DEARNLEY - MEIER & ASSOCIATES
GENERAL LAW REPORTERS
ALBUQUERQUE NEW MEXICO
Phone CHapel 3-6691

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
JULY 8, 1959

IN THE MATTER OF:

CASE 1713 Application of El Paso Natural Gas Company
for a gas-gas dual completion. Applicant,
in the above-styled cause, seeks an order
authorizing the dual completion of its Han-
cock Well No. 3, located in the SW/4 SW/4 of
Section 22, Township 28 North, Range 9 West,
San Juan County, New Mexico, in such a manner:
as to produce gas from the Aztec-Pictured
Cliffs Pool and to produce gas from the
Blanco-Mesaverde Pool through the casing-tub-
ing annulus and tubing respectively. Appli-
cant proposes to utilize a retrievable-type
packer in said well.

BEFORE:

Daniel S. Nutter, Examiner.

T R A N S C R I P T O F P R O C E E D I N G S

MR. NUTTER: Take next Case 1713.

MR. PAYNE: Case 1713. Application of El Paso Nat-
ural Gas Company for a gas-gas dual completion.

MR. HANNAHS: Fred Hannahs, Seth, Montgomery, Federici
& Andrews, Santa Fe, representing El Paso Natural Gas Company.
Mr. Garrett C. Whitworth, counsel, will conduct the interroga-
tion.

MR. WHITWORTH: We have one witness, Mr. John Mason,

to be sworn.

(Witness sworn)

JOHN MASON,

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

DIRECT EXAMINATION

BY MR. WHITWORTH:

Q Please state your full name, by whom and in what capacity you are employed.

A My name is John Mason, employed by the El Paso Natural Gas Company as proration engineer.

Q Have you testified as a proration engineer in previous hearings before this Commission?

A Yes, I have.

MR. WHITWORTH: We ask that the witness' qualifications be accepted.

MR. NUTTER: Mr. Mason's qualifications are acceptable.

Q Are you familiar with El Paso Natural Gas Company's Hancock No. 3 Well, which is the subject matter of the application in this case?

A Yes, I am.

Q What does El Paso seek by this application?

A The applicant seeks an order authorizing us to complete its Hancock No. 3 Well as a dually completed well in the

Azteco-Pictured Cliffs and the Blanco-Mesaverde well utilizing a retrievable type packer instead of a permanent type packer.

(Thereupon, El Paso's Exhibit No. 1 was marked for identification.)

Q Now, I hand you a document which has been marked as El Paso's Exhibit No. 1, and ask you what it is?

A Exhibit 1 is a plat showing the location of this Hancock No. 3 Well.

Q Where is the well located?

A This well is located 990 feet from the West line, 890 feet from the South line in Section 22 of Township 28 North, Range 9 West.

Q This document shows the offset operators?

A Yes. This plat shows the offset operators to be El Paso Natural Gas Company, also shows that Southern Union has some acreage in Section 16 to the northwest, but they have no wells in the southeast corner of that section. The plat also shows the Hancock No. 3 Well being encircled in red. The single completion wells, by one circle, they are completed in the Pictured Cliffs, and dually completed wells are indicated by a circle within a circle.

Q You propose to dually complete in the Pictured Cliffs and the Mesaverde, is that correct?

A That is right.

(Thereupon, El Paso's Exhibit No. 2 was marked for identification.)

Q I hand you another document which has been marked as El Paso's Exhibit No. 2, and ask you to state to the Examiner what that is?

A Exhibit No. 2 is a schematic diagram of the physical equipment in the Hancock No. 3.

Q What does this schematic diagram show?

A This diagram shows that there has been surface casing, 10 3/4 inch surface casing set at 171 feet, and 7 5/8 inch production stringer set at 3453, 5 1/8 inch liner run from 3388 to 5774. Also shows the Pictured Cliffs formation to be completed

with perforations at various intervals between 3258 and 3290 to have been fractured with water and sand. Also shows that there is a 1 1/4 inch tubing which is used as a syphon string that is landed opposite the Pictured Cliffs formation. Mesaverde formation is -- has been completed in the Menefee and Point Lookout. The Menefee perforations are at various intervals from 5374 to 5454, fractured with water and sand. Point Lookout perforations from 5546 to 5706 and also fractured with water and sand. Production from the Mesaverde is through a 2 inch tubing, which has been landed at 5686. The well also has a Baker Model EGJ packer set at 3488.

Q Now, what type of packer is this Baker Model EGJ?

A This is a retrievable type packer.

Q And is this the necessity for having a hearing concerning this dual completion?

A That is correct.

Q How does this type of packer differ from a permanent type?

A In memorandum No. 10-59 the Commission has defined what it regards a permanent type packer as being a non-retrievable permanently set packer preferable of drillable materials which may be set by electric line and/or tubing drilling line and so forth. This Baker Model BGJ packer is a retrievable packer and is not set permanently so it differs in those respects.

Q What are the advantages of using this type of packer?

A Well, the retrievability itself is one advantage and also there is an advantage in the cost, the initial investment is cheaper and less costly to run this packer and to maintain it also.

Q To your knowledge, has El Paso used this type of packer previously?

A Yes, referring to Exhibit No. 1, this type of packer was run in the Stoery No. 6-C and the Stoery No. 7-C, and then there are several other wells within the immediate vicinity which have also run this packer. The Lackey No. 10-B, which is in Section 21, Township 28 North, Range 9 West. And also in the Mitchner No. 4-A which is in Section 28 of the same Township and Range and these packers were run in 1957 and have performed satisfactorily.

Q You are familiar with the manner in which they have

performed?

A I have been advised that there has been no difficulty whatsoever.

Q Do you have any data showing potential shut-in pressure?

A Yes, sir, I do. The Pictured Cliffs formation was tested May the 13th, with an initial potential of 2,956 MCF per day with a calculated open flow of 3300 MCF, and shut-in pressure of 726 PSI. The Mesaverde had an initial potential of 2,199 MCF per day with an absolute open flow of 2,496, and shut-in pressure of 961 PSI.

Q Do you have a log of this well in which the dual completion is proposed?

A Yes, sir, I do.

(Thereupon, El Paso's Exhibit No. 3 was marked for identification.)

Q Is that marked as El Paso's Exhibit No. 3?

A Yes, sir.

Q What does this log show?

A This log shows the tops of the Pictured Cliffs and the Mesaverde formation and perforated intervals.

Q Will you state to the Examiner approximately when this well was completed?

A About May the 13th of 1959.

Q To both formations?

A Yes, sir.

Q In your opinion, should the Commission grant El Paso's application, would that prevent waste?

A Yes, sir, it would.

Q And would the granting of this application violate or prejudice correlative rights?

A No, sir.

Q Were El Paso's Exhibits 1, 2 and 3 prepared by you or under your direct supervision?

A Exhibits 1 and 2 were prepared by our Farmington office at my request, and Exhibit 3 is a standard Schlumberger electrical log.

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

MR. NUTTER: Without objection, El Paso's Exhibits 1 through 3 will be admitted in evidence.

(The documents heretofore marked El Paso's Exhibits 1, 2 and 3 were received in evidence.)

Q (By Mr. Whitworth) Is there anything else you wish to add to your testimony?

A Only that this well is so equipped that any tests that the Commission may require could be run.

MR. WHITWORTH: That's all I have.

MR. NUTTER: Any questions of Mr. Mason?

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Mason, what is the temperature of the producing formations under consideration here today?

A Well, according to the log, the maximum temperature is 105 degrees Fahrenheit.

Q Where is that temperature encountered?

A It is not indicated on the logs, so I am afraid I don't know.

Q What is the calculated pressure of the bottom of the hole as far as the Mesaverde is concerned?

A Well, we have a shut-in pressure of 961 pounds.

Q That was surface pressure?

A Yes, sir. We don't have a calculated bottom hole pressure on that.

Q What is the bottom hole pressure for the Pictured Cliffs formation?

A Again I have a surface pressure of 726 pounds.

Q What is the mechanism that the Baker Model EGJ retrievable type packer utilizes for holding it in place?

A Well, the packer has slips on the bottom that are actuated by a "J" slot mechanism which prevents the downward movement with the packer.

Q How many slips are employed there, Mr. Mason?

A I'm sorry, but I can't tell you that. They completely

surround the packer, I am sure.

Q Now, those prevent the downward movement?

A They prevent the downward movement and then in preventing upward movement, there are some hydraulically operated buttons which are actuated by the differential in pressure of the tubing, which prevent the upward movement.

Q How much differential pressure is required to actuate those hydraulic buttons?

A I think that it is only necessary that there is some differential, there is no specific amount.

Q In the production of gas from the Mesaverde and the Pictured Cliffs formations in a dual completion, is there any noticeable tubing movement, Mr. Mason?

A No, sir, it hasn't been encountered previously, I am sure.

Q How is this packer removed in the event the mechanism which is built into the machine fails to work when you want to retrieve it?

A Well, the Baker catalog says that it is easily retrievable.

Q Have you ever heard of a retrievable packer failing to retrieve?

A Yes, sir, I have.

Q How do you remove the thing, then?

A Well, in some cases, I guess, you back off the packer

with your tubing and try to drill it out.

Q Is the Model EGJ packer built of materials which are referred to as drillable materials?

A The specifications in the catalog don't refer to them as drillable, so I can't answer that definitely one way or the other.

Q Now, you stated, Mr. Mason, that cost was a factor in the selection of this packer. What is the cost of this packer installed?

A Well, installing the packer there is about three hundred to four hundred dollars difference in the cost of the packer itself and the installing of the packer.

Q What is the cost of the packer?

A The packer itself sells, plus the installation cost, for \$578 for this EGJ Model, and to run a Baker Model D permanent type packer, it would cost between \$900 and \$1,000, and on drill pipe \$850.

Q Now, the actual cost of the EGJ is \$578?

A Yes, sir. That's correct.

Q That's just the packer at the well site?

A No, that's the installation of the packer also. It is run in on a tubing string, so there is no additional cost there.

Q So the cost of the packer, then, installed, is the cost of the packer?

A That is correct.

Q Because the installation comes free when you run the tubing in the hole?

A Right.

Q Supposing you run a permanent type packer on tubing, is there an additional cost for the installation of that packer?

A I have no figures on that, and it is my understanding, in the past where we have run permanent type packers, that they have been run either on wire line or drill pipe.

Q And they cost from \$900 to \$1,000, --

A Yes, sir.

Q -- installed?

A Yes, sir.

Q That's wire line?

A That's wire line service, and your equipment that is required to run it in on the wire line.

Q Now, Mr. Mason, is it El Paso's practice upon removing a retrievable type packer and reinserting it in the hole, to dress the packer prior to running it the second time?

A I'm sure it is, sir.

Q In other words, the packer is never run with rubbers on it that have been used before?

A Well, I can't say definitely, but I'm sure that if the rubbers -- I don't know whether it is a common practice to automatically replace those rubbers, or only in case that they

appear to have been damaged, and in that event this will be replaced, I can't answer that definitely.

MR. NUTTER: Any further questions?

MR. PAYNE: Yes, sir.

QUESTIONS BY MR. PAYNE:

Q Mr. Mason, you don't feel that there is any more danger of communication using this retrievable type packer than if you use a permanent type?

A They have not experienced any more communication in the use of these packers than they have through the permanent type.

Q What is the relative number of each that you have used?

A Well, I don't know definitely how many of these EGJ packers we have used. I know we have used five or six in the near vicinity of this particular well. I didn't make the survey throughout the area to determine the amount overall.

Q Do you have any literature on this particular type packer?

A Yes, I do. I have it in the Baker catalog.

Q There are many different types of retrievable packers, is that not right?

A That is correct.

Q Do you feel this is superior to a bean bag?

A Yes, sir.

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Q If the Commission saw fit to grant this application, would you be willing to take packer leakage tests every six months instead of every year?

A Yes, I am sure we would.

MR. PAYNE: That's all. Thank you.

MR. NUTTER: We will take a fifteen minute recess.

(Short recess)

MR. NUTTER: The hearing will come to order, please.

QUESTIONS BY MR. NUTTER:

Q Mr. Mason, what does the Baker Model EGJ packer depend on to hold it in place?

A I think it probably depends upon the tubing weight, but I don't know just what is required on that.

Q Can you find out for us and determine the actual weight that is required to hold the thing in place --

A Yes, I will.

Q -- to withstand a differential such as we have in this well?

A Yes, I will certainly do that.

Q Can you also determine what the actual bottom hole pressures are in this well and submit that information to the Commission?

A Yes, sir, I can and will.

Q And can you also find out what the temperature is in this well in the zone that that packer is set?

A Yes, sir, I certainly can, and I will submit that as soon as possible.

Q Can you also find out what the actual drilling ability of the packer is?

A Yes, sir.

Q Can you also find out the differential that is required to actuate the buttons on the top of the packer --

A Yes, sir.

Q -- and submit that information to the Commission?

A Yes, sir, I certainly will.

MR. NUTTER: Are there any further questions of Mr. Mason? If not, he may be excused.

(Witness excused)

MR. NUTTER: Does anyone have anything further they wish to offer in Case 1713? We will take the case under advisement.

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) ss

I, J. A. Trujillo, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in Stenotype and reduced to typewritten transcript by me, and that the same is a true and correct record to the best of my knowledge, skill and ability.

WITNESS my Hand and Seal this, the 18th day of July, 1959, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

Joseph A. Trujillo
NOTARY PUBLIC

My Commission Expires:

October 5, 1960

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 1713
heard by me on 7-8, 1959.

Josefina, Examiner.
New Mexico Oil Conservation Commission

NEW MEXICO OIL CONSERVATION COMMISSION
PACKER SETTING REPORT

Adopted
1-1-65

Case 1713

R-1452

I, George F. Love, being of lawful age and having full
knowledge of the facts hereinbelow set out do state:

That I am employed by El Paso Natural Gas Company in the capacity of
Assistant Regional Drlg. Supt., that on July 24, 19 66

I personally supervised the setting of a Baker Model "N"
in El Paso Natural Gas Co., Hancock
Operator of well Make & type of packer Lease name

Well no. 3 (PM) located in the Aztec P. C. & Blanco M. V. field,
San Juan county, state of New Mexico, at a subsurface depth of
3350' feet, said depth measurement having been furnished me by
Wireline.

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.

George F. Love
(Signature)
Assistant Regional Drilling Superintendent
(Title)
September 7, 1966
(Date)

MAIN OFFICE 000

'66 SEP 12 AM 8 13

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. 1713
Order No. R-1452

APPLICATION OF EL PASO NATURAL
GAS COMPANY FOR AN ORDER AUTHOR-
IZING A GAS-GAS DUAL COMPLETION
IN THE AZTEC-PICTURED CLIFFS
POOL AND IN THE BLANCO-MESAVERDE
POOL, SAN JUAN COUNTY, NEW MEXICO,
UTILIZING A RETRIEVABLE-TYPE
PACKER

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9:00 o'clock a.m. on July 2, 1959, 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 31st day of July, 1959, 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 Natural Gas Company, is the owner and operator of the Hancock Well No. 3, located in the SW/4 SW/4 of Section 22, Township 28 North, Range 9 West, NMPM, San Juan County, New Mexico.

(3) That the applicant proposes to dually complete said Hancock Well No. 3 in such a manner as to produce gas from the Aztec-Pictured Cliffs Pool and to produce gas from the Blanco-Mesaverde Pool through the casing-tubing annulus and through 2-inch OD EUE, 4.7-pound, J-55 tubing, respectively, effecting separation of the zones in the well bore by means of a Baker Model "EGJ" retrievable-type packer to be set at 3488 feet.

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Case No. 1713
Order No. R-1452

(4) That the temperature which is expected to be encountered at 3488 feet in said Hancock Well No. 3 is approximately 103° Fahrenheit, and the proposed packer should be able to efficiently withstand a temperature of this magnitude.

(5) That the pressure differential between the two producing zones in the subject well is approximately 350 psi, which differential the proposed model "EGJ" packer should be able to efficiently withstand; further, that said differential should be adequate to effectively actuate the hydraulic hold-down buttons on said packer.

(6) That the weight of the proposed tubing string above the proposed packer setting-depth should be adequate to hold said packer in place effectively.

(7) That while said packer is not of a drillable nature, it can be milled out, which operation the applicant has expressed a willingness to undertake should the necessity arise.

(8) That the testimony indicates that the producing characteristics of each zone in the proposed dual completion are such that there will be no significant tubing movement which would tend to unseat said packer.

(9) That packer-leakage tests should be conducted on the subject well semi-annually.

IT IS THEREFORE ORDERED:

That the applicant, El Paso Natural Gas Company, be and the same is hereby authorized to dually complete its Hancock Well No. 3, located in the SW/4 SW/4 of Section 22, Township 28 North, Range 9 West, NMPM, San Juan County, New Mexico, in such a manner as to permit the production of gas from the Aztec-Pictured Cliffs Pool and the production of gas from the Blanco-Mesaverde Pool through the casing-tubing annulus and through 2-inch OD EUE, 4.7-pound, J-55 tubing, respectively, effecting separation of the zones in the well bore by means of a Baker Model "EGJ" retrievable-type packer to be set at 3488 feet.

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

PROVIDED FURTHER, That applicant shall take packer-leakage tests upon completion and annually thereafter during the Deliverability Test Period for the Blanco-Mesaverde Pool. Applicant shall also take packer-leakage tests semi-annually midway between the aforesaid Deliverability Test Periods.

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Case No. 1713

Order No. R-1452

IT IS FURTHER ORDERED:

That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order, after proper notice and hearing the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

John Burroughs
JOHN BURROUGHS, Chairman

Murray E. Morgan
MURRAY E. MORGAN, Member

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



vem/

OIL CONSERVATION COMMISSION

P. O. BOX 871
SANTA FE, NEW MEXICO

August 3, 1959

Mr. Oliver Seth
Seth, Montgomery, Federici & Andrews
P. O. Box 828
Santa Fe, New Mexico

Dear Mr. Seth:

On behalf of your client, El Paso Natural Gas Company, we enclose two copies of Order No. R-1452 issued July 31, 1959, by the Oil Conservation Commission in Case No. 1712.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

lr/

Enclosures

*Copy of order
sent to Hobbs
& Ayres*

DOCKET: EXAMINER HEARING JULY 8, 1959

OIL CONSERVATION COMMISSION, 9 a.m., MABRY HALL, STATE CAPITOL, SANTA FE

The following cases will be heard before Daniel S. Nutter, Examiner, or
A. L. Porter, Jr., Secretary-Director.

CASE 1707:

*Hellahin
Queen*

Application of Continental Oil Company for two non-standard oil proration units. Applicant, in the above-styled cause, seeks the establishment of two non-standard oil proration units for Delaware production, one 49.8-acre unit to consist of lots 1 and 2 of partial Section 35, Township 26 South, Range 32 East, Lea County, New Mexico, the other 49.9-acre unit to consist of lots 3 and 4 of said partial Section 35. Said units are to be dedicated respectively to a well to be located 330 feet from the North and East lines of lot 1 and to a well to be located 330 feet from the North and East lines of lot 3, all in said Section 35.

CASE 1708:

*Hellahin
Queen*

Application of Continental Oil Company for permission to commingle the production from three separate leases. Applicant, in the above-styled cause, seeks permission to commingle the production from an undesignated Delaware pool from three separate leases in Sections 25, 26, and 35, Township 26 South, Range 32 East, Lea County, New Mexico, after separately metering the production from each lease.

CASE 1709:

*Hellahin
Queen*

Application of Continental Oil Company for a 160-acre non-standard gas proration unit. Applicant, in the above-styled cause, seeks the establishment of a 160-acre non-standard gas proration unit in an undesignated Tubb gas pool consisting of the E/2 SW/4 and the W/2 SE/4 of Section 15, Township 20 South, Range 37 East, Lea County, New Mexico, said unit to be dedicated to applicant's Britt B-15 Well No. 9 located 1980 feet from the South and East lines of said Section 15.

CASE 1710:

*to Comm.
July 15*

Application of The Atlantic Refining Company for the establishment of three non-standard oil proration units and for approval of an unorthodox oil well location. Applicant, in the above-styled cause, seeks the establishment of three 44.56-acre non-standard oil proration units in the Horseshoe-Gallup Oil Pool, the three units together to comprise all of lots 1, 2, 3, and 4 of Section 33, Township 31 North, Range 16 West, San Juan County, New Mexico, one unit to be dedicated to a well in said lot 1, another to a well in said lot 2, the other to a well in said lot 4. Applicant further seeks approval of an unorthodox location for the well in said lot 2.

CASE 1711:

Dismiss

Application of The Atlantic Refining Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its State "Y" Well No. 8, located in the SE/4 NE/4 of Section 25, Township 25 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce oil from the Justis Blinebry Pool and from the Justis Fusselman Pool through parallel strings of tubing.

CASE 1712:

*Variety
Hazelton,
drlg. sup't.,
J. H.*

Application of Angels Peak Oil Company for a non-standard gas proration unit or in the alternative for a force pooling order. Applicant, in the above-styled cause, seeks the establishment of a 98.87-acre non-standard gas proration unit in the Fulcher Kutz-Pictured Cliffs Pool consisting of lots 1 and 2 of Section 10 and lots 3 and 4 of Section 11, both in Township 28 North, Range 11 West, San Juan County, New Mexico said unit to be

CASE 1712 (continued) dedicated to applicant's Angels Peak Well No. 5, located 285 feet from the North line and 1520 feet from the West line of said Section 11. Applicant proposes, in the alternative, to force pool all interests in the above-described acreage in said Fulcher Kutz-Pictured Cliffs Pool.

CASE 1713:

*Application
of Hancock
Well No. 3
John H. Trigg*

Application of El Paso Natural Gas Company for a gas-gas dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Hancock Well No. 3, located in the SW/4 SW/4 of Section 22, Township 28 North, Range 9 West, San Juan County, New Mexico, in such a manner as to produce gas from the Aztec-Pictured Cliffs Pool and to produce gas from the Blanco-Mesaverde Pool through the casing-tubing annulus and tubing respectively. Applicant proposes to utilize a retrievable-type packer in said well.

CASE 1714:

Application of John H. Trigg for an order authorizing a pilot water flood project, for capacity allowables for seven wells in said project area, and for establishment of an administrative procedure for expansion of said project and for granting capacity allowables. Applicant, in the above-styled cause, seeks an order authorizing it to institute a pilot water flood project in the Caprock-Queen Pool in Chaves County, New Mexico. Applicant proposes to inject water into the Queen formation through 4 wells located in Sections 4 and 5, Township 14 South, Range 31 East. Applicant also seeks capacity allowables for seven wells in said project. Applicant further seeks the establishment of a procedure whereby the project area may be expanded and capacity allowables granted without notice and hearing.

CASE 1715:

Application of Gulf Oil Corporation for permission to install a lease automatic custody transfer system. Applicant, in the above-styled cause, seeks an order authorizing it to install automatic custody transfer equipment to receive and measure the oil produced from its B. V. Culp Lease consisting of the SW/4 NW/4, E/2 NW/4, and the NE/4 of Section 19, Township 19 South, Range 37 East, Lea County, New Mexico.

CASE 1716:

Application of Northwest Production Corporation for an oil-gas dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its "S" Lease Well No. 15-11, located in the NE/4 NE/4 of Section 11, Township 24 North, Range 4 West, Rio Arriba County, New Mexico, in such a manner as to produce oil from an undesignated Gallup oil pool and the production of gas from an undesignated Dakota gas pool through parallel strings of tubing.

CASE 1717:

Application of Pan American Petroleum Corporation for an exception to the "No-Flare" provisions of Order No. R-1237. Applicant, in the above-styled cause, seeks an exception to the requirement in Order No. R-1237 that no casinghead gas be flared or vented from any well within the defined limits of the Otero-Gallup Oil Pool or within one mile therefrom for its Jicarilla Tribal 35 Well No. 1, located in the NW/4 SW/4 of Section 35, Township 25 North, Range 5 West, Rio Arriba County, New Mexico.

CASE 1718:

Application of Samedan Oil Corporation for an unorthodox oil well location. Applicant, in the above-styled cause, seeks an order authorizing an unorthodox oil well location in the Kemnitz-Wolfcamp Pool for a well to be located 660 feet from the South and East lines of Section 20, Township 16 South, Range 34 East, Lea County, New Mexico, in exception to the spacing requirements for said pool as promulgated by Order No. R-1011.

Docket No. 24-59

CASE 1719:

Application of Sinclair Oil & Gas Company to commingle the production from several separate pools. Applicant, in the above-styled cause, seeks authority to commingle the production from the Penrose-Skelly Pool and the Paddock Pool from all wells on its Brunson lease comprising the NW/4 SW/4 of Section 3 and the W/2 SE/4 of Section 4, Township 22 South, Range 37 East, Lea County, New Mexico. Applicant further seeks permission to commingle the production from the Hare Pool, Drinkard Pool and Tubb Gas Pool from all wells on said lease.

CASE 1720:

Application of Skelly Oil Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its W. P. Saunders Well No. 1, located in the SW/4 SE/4 of Section 11, Township 26 North, Range 11 West, San Juan County, New Mexico, in such a manner as to produce oil from the Gallegos-Gallup Oil Pool and to produce oil from an undesignated Dakota pool through parallel strings of tubing.

CASE 1721:

Application of Great Western Drilling Company for an automatic custody transfer system, for permission to commingle the production from separate leases, for permission to produce more than 16 wells into a common tank battery, and for an administrative procedure whereby wells may be produced in excess of top unit allowable. Applicant, in the above-styled cause, seeks an order authorizing installation of an automatic custody transfer system and for permission to commingle the Caprock-Queen Pool production from more than 16 wells located on separate leases within the confines of the North Central Caprock Queen Unit Area in Township 13 South, Ranges 31 and 32 East, Lea and Chaves Counties, New Mexico. Applicant further proposes the establishment of an administrative procedure whereby wells in said Unit Area may be permitted to produce in excess of top unit allowable for said Caprock-Queen Pool.

CASE 1712 (continued) dedicated to applicant's Angels Peak Well No. 5, located 285 feet from the North line and 1520 feet from the West line of said Section 11. Applicant proposes, in the alternative, to force pool all interests in the above-described acreage in said Fulcher Kutz-Pictured Cliffs Pool.

CASE 1713: Application of El Paso Natural Gas Company for a gas-gas dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Hancock Well No. 3, located in the SW/4 SW/4 of Section 22, Township 28 North, Range 9 West, San Juan County, New Mexico, in such a manner as to produce gas from the Aztec-Pictured Cliffs Pool and to produce gas from the Blanco-Mesaverde Pool through the casing-tubing annulus and tubing respectively. Applicant proposes to utilize a retrievable-type packer in said well.

CASE 1714: Application of John H. Trigg for an order authorizing a pilot water flood project, for capacity allowables for seven wells in said project area, and for establishment of an administrative procedure for expansion of said project and for granting capacity allowables. Applicant, in the above-styled cause, seeks an order authorizing it to institute a pilot water flood project in the Caprock-Queen Pool in Chaves County, New Mexico. Applicant proposes to inject water into the Queen formation through 4 wells located in Sections 4 and 5, Township 14 South, Range 31 East. Applicant also seeks capacity allowables for seven wells in said project. Applicant further seeks the establishment of a procedure whereby the project area may be expanded and capacity allowables granted without notice and hearing.

CASE 1715: Application of Gulf Oil Corporation for permission to install a lease automatic custody transfer system. Applicant, in the above-styled cause, seeks an order authorizing it to install automatic custody transfer equipment to receive and measure the oil produced from its B. V. Culp Lease consisting of the SW/4 NW/4, E/2 NW/4, and the NE/4 of Section 19, Township 19 South, Range 37 East, Lea County, New Mexico.

CASE 1716: Application of Northwest Production Corporation for an oil-gas dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its "S" Lease Well No. 15-11, located in the NE/4 NE/4 of Section 11, Township 24 North, Range 4 West, Rio Arriba County, New Mexico, in such a manner as to produce oil from an undesignated Gallup oil pool and the production of gas from an undesignated Dakota gas pool through parallel strings of tubing.

CASE 1717: Application of Pan American Petroleum Corporation for an exception to the "No-Flare" provisions of Order No. R-1237. Applicant, in the above-styled cause, seeks an exception to the requirement in Order No. R-1237 that no casinghead gas be flared or vented from any well within the defined limits of the Otero-Gallup Oil Pool or within one mile therefrom for its Jicarilla Tribal 35 Well No. 1, located in the NW/4 SW/4 of Section 35, Township 25 North, Range 5 West, Rio Arriba County, New Mexico.

CASE 1718: Application of Samedan Oil Corporation for an unorthodox oil well location. Applicant, in the above-styled cause, seeks an order authorizing an unorthodox oil well location in the Kemnitz-Wolfcamp Pool for a well to be located 660 feet from the South and East lines of Section 20, Township 16 South, Range 34 East, Lea County, New Mexico, in exception to the spacing requirements for said pool as promulgated by Order No. R-1011.

DOCKET: EXAMINER HEARING JULY 8, 1959

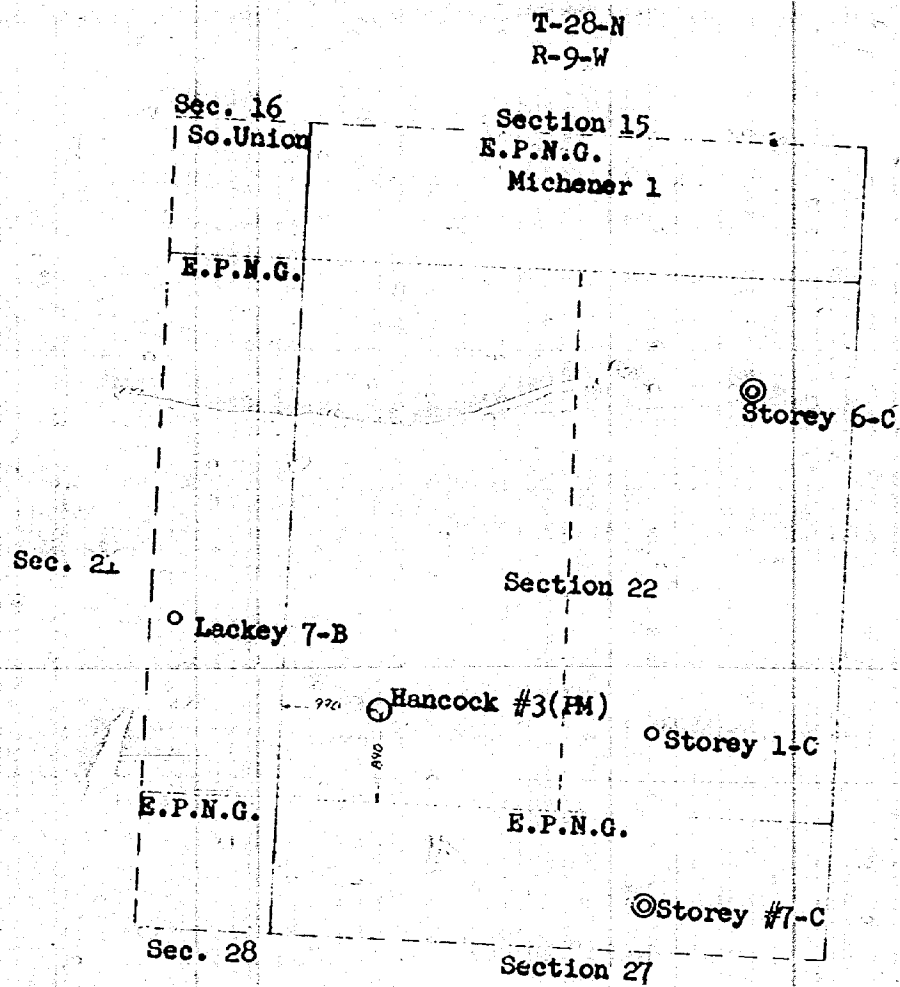
OIL CONSERVATION COMMISSION, 9 a.m., MABRY HALL, STATE CAPITOL, SANTA FE

The following cases will be heard before Daniel S. Nutter, Examiner, or
A. L. Porter, Jr., Secretary-Director.

- CASE 1707: Application of Continental Oil Company for two non-standard oil proration units. Applicant, in the above-styled cause, seeks the establishment of two non-standard oil proration units for Delaware production, one 49.8-acre unit to consist of lots 1 and 2 of partial Section 35, Township 26 South, Range 32 East, Lea County, New Mexico, the other 49.9-acre unit to consist of lots 3 and 4 of said partial Section 35. Said units are to be dedicated respectively to a well to be located 330 feet from the North and East lines of lot 1 and to a well to be located 330 feet from the North and East lines of lot 3, all in said Section 35.
- CASE 1708: Application of Continental Oil Company for permission to commingle the production from three separate leases. Applicant, in the above-styled cause, seeks permission to commingle the production from an undesignated Delaware pool from three separate leases in Sections 25, 26, and 35, Township 26 South, Range 32 East, Lea County, New Mexico, after separately metering the production from each lease.
- CASE 1709: Application of Continental Oil Company for a 160-acre non-standard gas proration unit. Applicant, in the above-styled cause, seeks the establishment of a 160-acre non-standard gas proration unit in an undesignated Tubb gas pool consisting of the E/2 SW/4 and the W/2 SE/4 of Section 15, Township 20 South, Range 37 East, Lea County, New Mexico, said unit to be dedicated to applicant's Britt B-15 Well No. 9 located 1900 feet from the South and East lines of said Section 15.
- CASE 1710: Application of The Atlantic Refining Company for the establishment of three non-standard oil proration units and for approval of an unorthodox oil well location. Applicant, in the above-styled cause, seeks the establishment of three 44.56-acre non-standard oil proration units in the Horseshoe-Gallup Oil Pool, the three units together to comprise all of lots 1, 2, 3, and 4 of Section 33, Township 31 North, Range 16 West, San Juan County, New Mexico, one unit to be dedicated to a well in said lot 1, another to a well in said lot 2, the other to a well in said lot 4. Applicant further seeks approval of an unorthodox location for the well in said lot 2.
- CASE 1711: Application of The Atlantic Refining Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its State "Y" Well No. 8, located in the SE/4 NE/4 of Section 25, Township 25 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce oil from the Justis Blinbry Pool and from the Justis Fusselman Pool through parallel strings of tubing.
- CASE 1712: Application of Angels Peak Oil Company for a non-standard gas proration unit or in the alternative for a force pooling order. Applicant, in the above-styled cause, seeks the establishment of a 98.87-acre non-standard gas proration unit in the Fulcher Kutz-Pictured Cliffs Pool consisting of lots 1 and 2 of Section 10 and lots 3 and 4 of Section 11, both in Township 28 North, Range 11 West, San Juan County, New Mexico said unit to be

Exhibit No. 1

Plat Showing Location of Dually Completed
El Paso Natural Gas Co. Hancock No. 3 (PM)
and Offset Acreage



○ Single Completion--Pictured Cliffs

◎ Dual Completion--Pictured Cliffs and Mesa Verde

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EP EXHIBIT NO. 1
CASE NO. 1713

EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE	DATE	No.
DRAWN BY	CHECKED BY	

SCHEMATIC DIAGRAM OF DUALY COMPLETED
El Paso Natural Gas Co. Hancock No. 3 (PM)
 SWSW Section 22, T-28-N, R-9-W

Dual String
Xmas Tree

Zero reference point 10.0' above top flange
of tubing hanger.

BEFORE EXAMINER NUTTER	
OIL CONSERVATION COMMISSION	
EXHIBIT NO. <u>27</u>	✓
CASE NO. <u>1713</u>	

300-400' installed
578' plus 2850
900-100'

10 3/4", 32.75# S. W. casing set at 171' with 108 sacks cement circulated to surface.

Top of cement by B & R Temperature Survey at 2660'.

Pictured Cliffs perforations 3258-3266; 3270-3290 (2 SPF) fractured with water and sand.

1 1/4", 2.4#, Grade "A" tubing landed at 3308' as a siphon string.

2", 4.7#, J-55 tubing landed at 5686' with perforations at 5651-5654'.

Top of liner hanger at 3388'. Top of cement by B & R Temperature Survey at 3700'. Top of liner squeezed with 100 sacks cement.

7 5/8", 26.4#, J-55 casing set at 3453' with 110 sacks cement.

Baker Model "EJ" packer set at 3488'.

Mensfee perforations 5274-5284; 5322-5338; 5428-5438; 5444-5454 (2 SPF) fractured with water and sand.

Point Lookout perforations 5546-5556; 5604-5618; 5654-5664; 5696-5706 (2 SPF) fractured with water and sand.

5 1/2", 15.50#, J-55 liner set from 3388' to 5774' with 213 sacks cement.

T.D. 5776'

*After
slips
downward movement
hydraulic
buttons*

*2956 MCF
3300 CAFE
726 psi*

*2199
CROF 2496
51 psi 96T*

*Temp
pressure
hid me ch
by movement
failure B
pressure
cost -
pressure (psi)*

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE May 20, 1959

Operator El Paso Natural Gas		Lease Hancock No. 3 (M)	
Location 8908, 990W; 22-28-9		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3353	Tubing: Diameter 2"	Set At: Feet 5677
Pay Zone: From 5274	To 5706	Total Depth 5776 c/o 5726	Shut In: 5/13/59
Stimulation Method Sand Water Frac.		Flow Through Tubing X	

Choke Size, Inches .75	Choke Constant: C 12.365	5-1/2 liner 3388 - 5774	
Shut-In Pressure, Casing 677 (PC)	PSIG 12 - PSIA 689	Shut-In Pressure, Tubing 949 (MV)	PSIG 12 - PSIA 961
Flowing Pressure: P 177	PSIG 12 - PSIA 189	Working Pressure: P _w Calc.	PSIG 12 - PSIA 379
Temperature: T 61	F .75	Exp (From Table) 1.021	Gravity .709

Initial SIPT (PC) = 675 psig

Packer at 3488

Final SIPC (PC) = 679 psig

CHOKE VOLUME = Q C x P₁ x F₁ x F₂ x F₃

$$Q = 12.365 \times 189 \times .9990 \times .9225 \times 1.021$$

2199 MCF/D

OPEN FLOW Aof = Q

$$\left(\frac{P_1^2 - P_2^2}{P_1^2 - P_w^2} \right)^n$$

Aof

$$\left(\frac{923521}{779880} \right)^n$$

$$1.1841^{.75} \times 2199 = 1.1352 \times 2199$$

Unloaded heavy spray after 4 min. continued
slugging liquid through-out test.

Aof

2496

MCF/D

TESTED BY M. W. Rischard

WITNESSED BY

Lewis D. Galloway
L. D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE May 27, 1959

Operator El Paso Natural Gas		Lease Hancock No. 3 (P)	
Location 8908, 990W; 22-28-9		County San Juan	State New Mexico
Formation Pictured Cliffs		Pace Aztec	
Casing Diameter 7-5/8	Set At: Feet 3353	Tubing Diameter 1-1/4	Set At: Feet 3298
Pay Zone: From 3258	To 3290	Total Depth 5776 c/o 5726	Shut In 5/13/59
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75	Choke Constant, C 12.365	5-1/2 liner 3388-5774
Shut-In Pressure, Casing 714	PSIG 12 PSIA 726	Shut-In Pressure, Tubing 714
Flowing Pressure, Casing 230	PSIG 12 PSIA 242	Flowing Pressure, Tubing 241
Temperature, Casing 65	F .85	Flowing Pressure, Tubing 241
		Gravity .638

Initial SIPT (MV) = 894 psig
Final SIPT (MV) = 906 psig

Packer at 3488

CHOKE VOLUME = $Q = C \times P_1 \times F_1 \times F_g \times F_v$

$$Q = 12.365 \times 242 \times .9952 \times .9721 \times 1.021 = 2956 \text{ MCF/D}$$

$$\text{OPEN FLOW } A_{of} = Q \left(\frac{P_1^2 - P_2^2}{P_1^2 - P_w^2} \right)^n$$

$$A_{of} = \left(\frac{527076}{463067} \right)^n \quad 1.1382^{.85} \times 2956 = 1.1163 \times 2956$$

$$A_{of} = 3300 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY

Checked By M. W. Rischard

Lewis D. Galloway
L. D. Galloway

El Paso Natural Gas Company

El Paso, Texas
July 10, 1959 JUL 13 AM 8:34

Mr. Dan S. Nutter, Chief Engineer
New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Dear Dan:

In compliance with your request as Examiner in Case No. 1713, whereby the El Paso Natural Gas Company seeks an order authorizing the dual completion of its Hancock No. 3 well by utilizing a retrievable type casing packer, the following information is submitted:

A. Data on producing formations.

1. Bottom hole pressures--calculated:

Pictured Cliffs..... 787 psia (at 3274 ft.)
Mesa Verde..... 1138 psia (at 5490 ft.)

2. In-hole temperatures from Temperature Survey:

Pictured Cliffs..... 98°F (at 3274 ft.)
Mesa Verde..... 133°F (at 5490 ft.)
At packer..... 103°F (at 3488 ft.)

B. Information in regards to Baker Model "EGJ" casing packer.

1. Drillability:

This packer is constructed of a J-55 grade or better and is not drillable; however, it can be milled out, which operation El Paso would be willing to undertake should the necessity arise.

2. Tubing weight required to hold bottom slips in place:

It is recommended that a tubing weight of 12,000 to 14,000 pounds be applied to hold the slips in place effectively. A minimum of 6,000 pounds is required to expand the packing element. El Paso sets down within the recommended range of 12,000 to 14,000 pounds.

3. Differential required to actuate the hydraulic hold:

Only a slight differential, 5 to 10 psi, will actuate buttons; however, in order to effectively contain casing and prevent upward movement, a differential of 85 to 100 psi in favor of the tubing is required. The differential between the two producing zones in the well is approximately 350 psi.

Mr. Dan S. Nutter
July 10, 1959
Page 2

4. Temperature conditions under which the Baker Model "EGJ" packer may be used:

Normally, this packer is not recommended for use in the San Juan Basin Area where the temperature is in excess of 200°F. El Paso's policy is to limit the use to wells with temperatures not in excess of 120°F at the packer setting depth. The Hancock No. 3 well has a temperature of approximately 103°F at the packer.

We wish to reiterate our willingness to conduct packer leakage tests in this well at six-month intervals instead of annually so long as the Commission shall deem necessary in order to determine the effectiveness of the segregation of the Pictured Cliffs and Mesa Verde formations.

It is hoped that the above information will be of assistance in your determination of this case; however, if we can be of further help in any way, please advise me.

Best personal regards.

Sincerely yours,

John B. Mason
John B. Mason
Proration Department

JBM:jmh

Docket No. 24-59

CASE 1719:

Application of Sinclair Oil & Gas Company to commingle the production from several separate pools. Applicant, in the above-styled cause, seeks authority to commingle the production from the Penrose-Skelly Pool and the Paddock Pool from all wells on its Brunson lease comprising the NW/4 SW/4 of Section 3 and the W/2 SE/4 of Section 4, Township 22 South, Range 37 East, Lea County, New Mexico. Applicant further seeks permission to commingle the production from the Hare Pool, Brinkard Pool and Tubb Gas Pool from all wells on said lease.

CASE 1720:

Application of Skelly Oil Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its W. P. Saunders Well No. 1, located in the SW/4 SE/4 of Section 11, Township 26 North, Range 11 West, San Juan County, New Mexico, in such a manner as to produce oil from the Gallegos-Gallup Oil Pool and to produce oil from an undesignated Dakota pool through parallel strings of tubing.

CASE 1721:

Application of Great Western Drilling Company for an automatic custody transfer system, for permission to commingle the production from separate leases, for permission to produce more than 16 wells into a common tank battery, and for an administrative procedure whereby wells may be produced in excess of top unit allowable. Applicant, in the above-styled cause, seeks an order authorizing installation of an automatic custody transfer system and for permission to commingle the Caprock-Queen Pool production from more than 16 wells located on separate leases within the confines of the North Central Caprock Queen Unit Area in Township 13 South, Ranges 31 and 32 East, Lea and Chaves Counties, New Mexico. Applicant further proposes the establishment of an administrative procedure whereby wells in said Unit Area may be permitted to produce in excess of top unit allowable for said Caprock-Queen Pool.

Case
1713

El Paso Natural Gas Company

1959 JUN 17 AM 8:34
El Paso, Texas
June 16, 1959

Case
1713

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Gentlemen:

As soon as possible, please set for hearing our application for dual completion in the Pictured Cliffs and Mesa Verde producing intervals El Paso Natural Gas Company's Hancock No. 3, M-22, 28 North, 9 West.

The form, "Application for Dual Completion," and the diagrammatic sketch of the mechanical facilities in the well have been forwarded to you by our Farmington Office. This application is for dual completion with a retrievable type Baker model BJG packer.

If there is any further information that you need prior to the hearing, please advise me.

Yours very truly,

D. H. Rainey

D. H. RAINEY
Administrative Assistant
Proration Department

DHR:jmh

Looked. Mailed
6-25-59
[Signature]

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION
MAIN OFFICE OCC

Field Name Aztec Pictured Cliffs & Blanco Mesa Verde		County San Juan	Date June 9, 1959
Operator El Paso Natural Gas Company		Lease Hancock	3 (PM)
Location of Well M	Unit 22	Section 28N	Range 9W

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☒ NO ☐

2. If answer is yes, identify one such instance: Order No. **DC-468**; Operator, Lease, and Well No.:

Lackey No. 10-B (PM)

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Pictured Cliffs	Mesa Verde
b. Top and Bottom of Pay Section (Perforations)	3258-3290	5274-5454 (Manifee) 5546-5706 (Point Lookout)
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 mark YES or NO)

Yes a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, 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.

Yes 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.

No c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*

No 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

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 _____.

CERTIFICATE: I, the undersigned, state that I am the **Division Petroleum Engr.** 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]
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 dual completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

MAIN OFFICE OCC

1959 JUN 17 AM 8:35

Case 1713

STATE OF NEW MEXICO)
)
COUNTY OF SAN JUAN)

I, D. H. Oheim, being first duly sworn upon my oath
depose and say as follows:

I am an employee of El Paso Natural Gas Company, and
that on May 13, 1959, I was called to the location of the El Paso
Natural Gas Company Hancock No. 3 (PM) well located in the SWSW/4 of
Section 22, Township 28 North, Range 9 West, N.M.P.M., for advisory
service in connection with installation of a production packer. In
my presence, a Baker Model "EGJ" Production Packer was set in this
well at 3488 feet in accordance with the usual practices and customs
of the industry.

Donald H. Oheim

Subscribed and sworn to before me this 10th day of
June, 1959.

Paul MacCall
Notary Public in and for San Juan
County, New Mexico

My commission expires February 24, 1960.