Casa Mo.

1005

Application, Transcript,
5 mall Exhibits, Etc.

ASE 1005: Blackwood & Nichols Co., pplication for 259.82 acre non-stanard

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

APPLICATION FOR APPROVAL OF NON-STANDARD GAS PRORATION UNIT CONSISTING OF LOTS 5, 6, 7 and 8 and E½W½, SECTION 19, TOWNSHIP 31 NORTH, RANGE 7 WEST; ALSO LOT 5 and NE½NW½, SECTION 30, TOWNSHIP 31 NORTH, RANGE 7 WEST, IN THE NORTHEAST BLANCO UNIT AREA, BLANCO-MESA VERDE GAS POOL, SAN JUAN and RIO ARRIBA COUNTIES, NEW MEXICO.

CASE NO. 1005

APPLICATION

Comes now Blackwood & Nichols Company and respectfully submits this application for a non-standard gas proration unit consisting of Lots 5, 6, 7 and 8 and $E_2^1W_2^1$, Section 19; also Lot 5 and $NE_4^1NW_4^1$, Section 30, all in Township 31 North, Range 7 West, San Juan and Rie Arriba-Countles, New Mexico. Said tract contains acres and applicant proposes to drill a well in the SW_4^1 of Section 19, Township 31 North, Range 7 West.

The applicant states that the acreage contained within the proposed non-standard proration unit lies wholly within the Northeast Blanco Unit, San Juan and the Arriba Counties, New Mexico and is within the Blanco-Mesa Verde Gas Pool in said counties.

The applicant proposes the above described acreage be established as a non-standard unit in exception to Rule 1 of Order R-128-D, heretofore entered by the Commission.

Applicant further shows that the $W_{\overline{z}}^{1}$ of Section 19 and the $W_{\overline{z}}^{1}$ of Section 30, in Township 31 North, Range 7 West, are smaller than the normal half sections, according to governmental surveys; consequently, the applicant is prevented from forming standard proration units.

Applicant requests that if it is in conformance with the rules of the Commission, that this matter be set down for a hearing before an examiner following the regular hearing of the Commission scheduled for January 19, 1956.

Respectfully submitted,

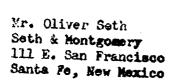
SETH & MONTGOMERY

by coursen

Attorneys for Blackwood & Nichols Company

OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE. NEW MEXICO

February 24, 1956



Dear Sir:

In behalf of your client, Blackwood & Michols Company, we enclose two cepies of each of the following orders issued February 20, 1956, by the Oil Conservation Commission:

Order R-749 in Case 1005 Order R-750 in Case 1006 Order R-751 in Case 1007 Order R-752 in Case 1008 Order R-753 in Case 1009

These cases were all heard on January 24th.

Very truly yours,

W. B. Macey Secretary - Director

WBM: brp Encls.

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

> CASE NO. 1005 Order No. R-749

THE APPLICATION OF BLACKWOOD AND NICHOLS COMPANY FOR AN ORDER GRANTING AN EXCEPTION TO RULE 1, OF THE SPECIAL RULES AND REGULATIONS OF THE BLANCO-MESAVERDE GAS POOL AS SET FORTH IN ORDER NO. R-128-D, IN ESTABLISHMENT OF A NON-STANDARD GAS PRORATION UNIT OF 259.82 CONTIGUOUS ACRES CONSISTING OF LOTS 5, 6, 7 AND 8 AND E/2 W/2 SECTION 19, LOT 5 AND THE NE/4 NW/4 SECTION 30, TOWNSHIP 31 NORTH, RANGE 7 WEST, NMPM, 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 January 24, 1956, at Santa Fe, New Mexico, before Warren W. Mankin, Examiner, duly appointed by the Oil Conservation Commission of New Mexico in accordance with Rule 1214 of Order No. R-681.

NOW, on this day of February 1956, the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission", a quorum being present, having considered said transcript of testimony and record and the recommendations of the Examiner, Warren W. Mankin, and being fully advised in the premises,

FINDS:

- 1. That due notice of the time and place of hearing and the purpose thereof having been given as required by law, the Commission has jurisdiction of this case and the subject matter thereof.
- 2. That applicant, Blackwood and Michols Company, is the owner of an oil and gas lease in San Juan County, New Mexico, the land consisting of other than a legal standard half section, a part of which is described as follows, to-wit:

TOWNSHIP 31 NORTH, RANGE 7 WEST, NMPM Section 19: Lots 5, 6, 7 and 8, E/2 W/2 Section 30: Lots 5, NE/4 NW/4

containing 259.87 acres, more or less.

- 3. That applicant, Blackwood and Nichols Company, proposes to drill a well in the SW/4 of Section 19, Township 31 North, Range 7 West, within the horizontal limits of the Blanco-Mesaverde Gas Pool.
- 4. That it is impractical to pool applicant's above described acreage with adjoining acreage in the Blanco-Mesaverde Gas Pool, and that the owners of adjoining acreage in said area have not objected to the formation of the proposed proration unit of 259.82 acres.
- 5. That the acreage contained within the proposed unit lies wholly within the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, and is within the Blanco-Mesaverde Gas Pool.
- 6. That unless a proration unit consisting of applicant's afore-said acreage is permitted, applicant will be deprived of the opportunity to recover its just and equitable share of the natural gas in the Blanco-Mesaverde Gas Poel.
- 7. That creation of a proration unit consisting of the aforesaid acreage will not cause but will prevent waste, and will protect correlative rights.

IT IS THEREFORE ORDERED:

1. That the application of Blackwood and Nichols Company, for approval of a non-standard gas proration unit in the Blanco Messverde Gas Pool consisting of the following described acreage in San Juan County, New Mexico:

TOWNSHIP 31 NORTH, RANGE 7 WEST, NMPM Section 19: Lots 5, 6, 7 and 8, E/2 W/2 Section 30: Lot 5, NE/4 NW/4

be and the same is hereby approved, and a proration unit consisting of aforesaid 259.82 acres is hereby created.

2. That applicant's proposed well to be located in the SW/4 Section 19, Township 31 North, Range 7 West, NMPM, San Juan County, New Mexico, upon completion shall be granted an allowable in the proportion that the above described 259.82 acre unit bears to the standard or orthodox proration unit for said pool, all until further order of the Commission.

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

STATE OF NEW MEXICO

OIL CONSERVATION COMMISSION

FOHN F. SIMMS. Chairman

L.S. WALKER, Member

W B marey

W. B. MACEY, Member and Secretary



Memo Hank Jules

Jack Jurley 1/24/57

Re Cases 1005, 1006, 1007,1008+1009

Recommend orders be written granting approval of applicant's nonStandard gas provation units in leach of the Onligies cases.

BEFORE THE OIL CONSERVATION COMMISSION Santa Fe, New Nexico January 24, 1956

IN THE MATTER OF:

CASES 1005, 1006, 1007,)

TRANSCRIPT OF PROCHEDINGS

BEFORE THE OIL CONSERVATION COMMISSION Santa Fe, New Mexico January 24, 1956

IN THE MATTER OF:

CASE 1005:

Application of Blackwood and Nichols Company for an order approving a non-standard gas proration unit in exception to Rule 1 of the Special Rules and Regulations for the Blanco Mesaverde Gas Pool, San Juan and Rio Arriba Counties, New Mexico, as set forth in Order R-128-D. Applicant, in the above-styled cause, seeks an order establishing a 259.82 acre non-standard gas proration unit consisting of Lots 5, 6, 7 and 8, and the E/2 W/2 Section 19, Lot 5 and the NE/4 NW/4 Section 30, Township 31 North, Range 7 West, San Juan County, New Mexico; said acreage to be dedicated to applicant's proposed well to be drilled in the SW/4 of said Section 19.

CASE 1006:

Application of Blackwood and Nichols Company for an order approving a non-standard gas proration unit in exception to Rule 1 of the Special Rules and Regulations for the Blanco Mesaverde Gas Pool, San Juan and Rio Arriba Counties, New Mexico, as set forth in Order d-128-D. Applicant, in the above-styled cause, seeks an order establishing a 250.65 acre non-standard gas proration unit consisting of Lots 6, 9 and 10, E/2 SM/4, SE/4 NW/4 Section 30, Lots 7 and 8, E/2 NW/4 Section 31, Township 31 North, Range 7 West, San Juan County, New Mexico; said acreage to be dedicated to applicant's proposed well to be drilled in the SM/4 of said Section 30.

CASE 1007:

Application of Blackwood and Nichols Company for an order approving a non-standard gas proration unit in exception to Rule 1 of the Special Rules and Regulations for the Blanco Resaverde Gas Pool, San Juan and Rio Arriba Counties, New Mexico, as set forth in Order R-128-D. Applicant, in the above-styled cause, seeks an order establishing a 296.02 acre non-standard gas proration unit consisting of Lots 11 and 12, E/2 SM/4 Section 31, Township 31 North, Range 7 Nest; Lots 11, 12, 17 and 16, E/2 M/2 Section 6, Township 30 North, Range 7 Nest, San Juan County, New Mexico; said acreage to be dedicated to applicant's Northeast Blanco Unit Hell No. 23-6 located in the SM/4 of said Section 6.

CASE 1008:

Application of Blackwood and Nichols Company for an order approving a non-standard gas proration unit in exception to Rule 1 of the Special Rules and Regulations for the Blanco Mesaverde Gas Pool, San Juan and Rio Arriba Counties, New Mexico, as set forth in Order R-128-D. Applicant, in the above-styled cause, seeks an order establishing a 298.90 acre non-standard gas proration unit consisting of Lots 7, 8, 13 and 14, E/2 W/2 Section 7, Lots 7 and 8, E/2 NW/4 Section 18, Township 30 North, Range 7 West, San Juan County, New Mexico; said acreage to be dedicated to applicant's Northeast Blanco Unit Well No. 31-7 located in the SW/4 of said Section 7.

CASE 1009:

Application of Blackwood and Nichols Company for an order approving a non-standard gas proration unit in exception to Rule 1 of the Special Rules and Regulations for the Blanco Mesaverde Gas Pool, San Juan and Rio Arriba Counties, New Mexico, as set forth in Order R-128-D. Applicant, in the above-styled cause, seeks an order establishing a 307.44 acre non-standard gas proration unit consisting of Lots 12 and 13, E/2 SW/4 Section 18, Lots 6, 7, 12 and 13, and the E/2 W/2 Section 19, Township 30 North, Range 7 West, San Juan and Rio Arriba Counties, New Mexico; said acreage to be dedicated to applicant's proposed well to be located in the SW/4 of said Section 19.

BEFORE:

Warren W. Mankin, Examiner

TRANSCRIPT OF HEARING

HEARING EXAMINER MANKIN: Next case is Case 1005 and I presume 1006, 1007, 1008 and 1009. I presume that you would want to consolidate those for the purposes of testimony.

IM. SETH: Yes. Seth & Montgomery appearing for Blackwood and Nichols. I believe they contain common questions of fact and regulations, and I would like to consolidate those for hearing.

MR. MANKIN: Is there objection to consolidating these five cases for purposes of testimony? If not, we will so near them together for the purposes of testimony. Proceed Mr. Seth.

MR. SETH: I would like to call as a witness Mr. Loos.

MR. MANKIN: Just this one witness, Mr. Seth.

MR. SETH: Yes.

DE LASO LOOS

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

DIRECT EXALINATION

BY MR. SETH:

Q Would you state your name please for the record?

A De Laso Loos.

Q And by whom are you employed and in what capacity?

A Blackwood and Nichols Company, employed as District Manager for the Rocky Mountain District.

Q Would you please state your education, training and experience?

A I am a graduate of the University of Oklahoma with a Bachelor of Science Degree in Petroleum Engineering. Immediately after graduation I was employed by Cool and Stilley Engineering Company in Midland, Texas, and in November of 1950 I was employed by Blackwood and Nichols Company as a petroleum engineer.

Q What has been your experience with Blackwood and Nichols in this Northeast Blanco Unit Area?

A In May of 1952 we took over the Northeast Blanco Unit and I was moved to Durango to be in charge of the operation of the Northeast Blanco Unit.

MR. SETH: Are his qualifications acceptable?

MR. MANKIN: They are.

Q Mr. Loos, have you prepared a plat of the area that is covered by the applications in Cases 1005 - 1009?

A Yes, sir. I have some extra copies of this plat.

MR. SETH: We would like to have that marked as applicant's Exhibit one in each of these cases.

MR. GURLEY: You have the one plat for all the cases.

MR. SETH: I think the record will be consolidated.

MR. MANKIN: For the purposes of testimony.

Q Referring to this exhibit one, did you prepare this exhibit? A I did.

Q Was it prepared under your direction?

A It was prepared under the direction of the General Manager in Oklahoma City with suggestions from me. Q You are familiar with it?

A Yes, sir.

Q This exhibit indicates a row of sections along the west side of Townships 30 and 31 North, 7 West. A That is correct.

Q These sections shown on this plat are narrow sections east and west, is that right? A Yes, sir.

Q Do they contain the full half section on the eastern side . . . on the east side? A Yes, sir.

Q And they contain a full $\mathbb{Z}/2$ of the $\mathbb{Z}/2$ in each instance. A Yes, sir.

Q They are all full 80 acre tracts on the $\mathbb{E}/2$ of the $\mathbb{H}/2$ of these sections. A Yes, sir.

Then the balance of the section is made up of lots of varying size. A Yes, sir.

- & Now, are all of these sections within the Northeast Blanco Unit?
- A Yes, sir.
- Q Now, your application, referring to Case 1005, your application . . . will you state to the Commission what area the application covers. Start at the top of these exhibits.
- A Case 1005 consisting of Lots 5, 6, 7 and 8, and the E/2 W/2 of Section 19, Lot 5 and NE/4 NW/4 of Section 30, Township 31 North, Range 7 West, San Juan County.
 - Q Is that tract outlined in red on the exhibit?
 - A Yes, sir.
 - Q Is the acreage figure indicated?
 - A Yes, sir.
 - Q What is the acreage?
 - A 259.82 acres.
- $\,$ Q $\,$ Now, referring to Case 1005, would you describe please the carrying color of the application 1006?
- A 1006 consists of Lots 6, 9 and 10, and E/2 ST/4, ST/4 NM/4 of Section 30.
 - Q SE/4 NN/4?
- A SE/4 NW/4. Lots 7 and 8, and the E/2 NW/4 Section 31, Township 31 North, Range 7 West, San Juan County.
 - Q Now, is this area also outlined in red on exhibit one?
 - A Yes, sir.
 - Q What is the acreage indicated?
 - A It consists of 250.65.acres.

Q Now, referring to Case 1007.

A Case 1007 consists of Lots 11 and 12, E/2 SW/4 Section 31, Township 31 North, Range 7 West, Lots 11, 12, 17 and 18, E/2 W/2 Section 6, Township 30 North, Range 7 West, San Juan County, New Mexico.

MR. GURLEY: That is Township 30 North, Range 7 West, sir.

A Yes, sir.

MR. GURLEY: Thank you.

A Which consists of 296.02 acres.

Now Case 1008.

A Case 1008 consisting of Lots 7, 8, 13 and 14, E/2 W/2 of Section 7. Also Lots 7 and 8, E/2 NM/4 of Section 18, Township 30 North, Range 7 West, San Juan County, New Mexico, which consists of 298.90 acres.

Q Now Case 1009.

A Case 1009 consisting of Lots 12 and 13, E/2 SW/4 Section 18, and Lots 6, 7, 12 and 13, and the E/2 W/2 of Section 19, Township 30 North, Range 7 West, Sen Juan and Rio Arriba Counties, New Mexico, which consists of 307.44 acres.

Q Now, our application as originally submitted, as the Commission pointed out, omitted the E/2 NW/4 Section 19, that was later amended.

MR. MANKIN: We have a letter amending that.

Q Now, Er. Loos, would you again start with Case 1005 and indicate the proposed well locations on the unorthodox proration units?

A In Case 1005 we propose to drill a well in the Sm/4 of Section 19, Township 31 North, Lange 7 West.

- Q Is that location indicated on Exhibit One?
- A Yes, sir.
- Q Are there offsetting wells to this proposed non-standard unit?

A Well there . . . I don't recall which section it is, but there is an offset well.

- Q Do you have some information on that?
- A In Section 24, 31 North, 8 West, in the NE/4 there is a completed well drilled by Pacific Northwest.
 - Q Is that completed in the Blanco Mesaverde?
 - A Yes, sir.
 - Q Are there any other offsets outside the area of this 1005?
 - A No, sir.
 - MR. NUTTER: What was the location of that well again, please?
 - MR. LOOS: NE/4 of Section 24, 31 North, 8 West.
 - MR. MANKIN: Do you have the particular quarter-quarter section?
 - MR. LOOS: No, sir, I don't have the exact location.
- Q Would you also indicate the proposed location of the well in the standard unit in Case 1005?
 - A There is a proposed well in the NE/4 of Section 19.
- Q Now, for 1006. Indicate if you would please, first, the proposed well location.
- A In 1006, the proposed well will also be in the SM/4 of Section 30, 31 North, 7 West.
 - Q Is the location in the SE/4 of the SM/4?
 - A Yes, sir.
 - Q Is that well offset by unit acreage on the west?
 - A Yes, sir.
 - Q Now, referring again to Case 1007.
- A 1007 the well in 1007 has been completed which is in the SM/4, SE/4 of the SM/4 of Section 6, 30 North, 31 North, 7 West.
 - LR. MANKIN: That well has been designated as 23-6.

Q Can you describe them?

A I think that is El Paso Natural Gas Company's acreage or unit south of the Northeast Blanco Unit. The wells in there have been drilled by Pacific Northwest Pipeline Corporation, in Section . . . I believe the Northeast of 25, 30 North, 8 West. I don't know if that well in Section 30, 31 North, 7 West, would apply in this case as an offset well to the SE/4 of the SN/4 of Section 19.

- Q Is there a . . . did you mention the well in Section 30?
- A Yes, sir. Up there in the Northeast.
- MR. NUTTER: I believe you meant 30 North. You said 31 North.
- MR. LOOS: Yes, sir.
- Q Now, considering all the cases together, has this arrangement of acreage and proposed locations does that correspond as nearly as possible to the existing rules in this particular pool insofar as possible?

A Well, I believe so. We tried to work out different acreage allocations to a different number of wells in this strip. If you say, for instance, have four wells in there, then and try and divide the acreage equally among four wells, then you would have to cross an arbitrary line and then the E/2 of these sections, which is I believe, impossible under the rules.

- Q I didn't ask you about the acreage offsetting on the west and in Sections 30 & 31, 6, 7 & 18, is that within the Northeast Blanco Unit?
 - A Yes, sir. The exception is the south of 19.
- Q It is offset by all unit acreage. Nr. Loos, in your opinion, is this arrangement of acreage in the shape of these non-standard units will that permit the best possible development in your opinion and prevent the drilling of unnecessary wells?

A I think that this arrangement is about as near as we can arrange the thing to properly drain our own acreage and protect ourselves against the offset wells in two particular cases - Case 1005 and Case 1009.

Q And will permit you to recover your fair share of the oil and gas in place.

- A Yes, sir.
- Q And in your opinion, will it permit waste?
- A I don't think so.
- Q Will it prevent waste?
- A Yes, sir.
- MR. SETH: I believe that is all.

MR. MANKIN: Mr. Loos, in most cases these five non-standard units you are asking for are offset either by unit acreage to the west and, therefore, protected within the unit. Except possibly to the north of the unit.

MR. LOOS: Yes, sir.

MR. MANKIN: In Section 19, 31 North, 7 West, which is offset by acreage other than the unit.

MR. LOOS: And also to the North - 19.

MR. MANKIN: That is the one I am speaking of.

MR. LOOS: And South also.

MR. MANKIN: And South also. This application, of course, requests a non-standard or unorthodox unit. It isn't in the call of this hearing to approve the non-standard locations. I presume that you will make a separate administrative request of the Director of this Commission - request because of of surface conditions and the dam and the back waters of the dam, you will request a separate permission for the non-standard location of the wells.

A Yes, sir. Before we submit our notice of intention to drill, we

will secure authority from the Secretary - Director for an unorthodox location.

MR. MANKIN: I believe you will find it can be done as an exception to Order R-110 which states that the well should be 990 from the outer boundaries. Of course, that is not possible in these cases and that can be done administratively. Do you have anything further?

MR. SETH: No, we haven't.

MR. NUTTER: Mr. Loos, with respect to the proration units on the east side of this row of partial sections, are all of those original units standard in size?

MR. LOOS: The E/2 of these sections are 320 acres.

MR. NUTTER: They are all standard proration units.

MR. LOOS: Yes, sir.

MR. NUTTER: Now, with respect to the location of wells that are proposed, all of the locations are standard with respect to the location except the one that is located in Section 19, of Township 30 North, Hange 7 West.

MR. LOOS: Yes, sir.

MR. SETH: The reason the existing well in the E/2 of 18 -

MR. NUTTER: I said with respect to the proposed well. The well that has been drilled in Section 18 is non-standard but approval has already been obtained for that one.

MR. LOOS: It is an unorthodox location. The reason that we propose this well in the SE/4 of 19 is due to the reservations of the N/2 of Section 19 for the proposed dam site.

MR. NUTTER: Have you been out there yet and made a survey of the proposed location of that well in the SE/4 of Section 19, 30 and 7?

MR. LOOS: Not actually on the grounds, just visually.

MR. NUTTER: You don't have the footage location as yet?

MR. LOOS: No, sir.

MR. NUTTER: Now, the well will be located in the W/2 of Section 19, 30 and 7, will be a standard location won't it? It will be down in the SW/4.

MR. LOOS: Well, it will be SE/4 of the SM/4 which . . .

MR. MANKIN: Which would be non-standard.

MR. LOOS: It would be non-standard.

MR. MANKIN: Because it is closer than 990 to the outer boundary or the east.

MR. LOOS: From the east.

MR. MANKIN: From the center of the section. From the line through the center of the section running north and south.

MR. NUTTER: It will be impossible to get a standard location in either half then of 19, Mr. De Loos. One more question - what do you propose the allowable should be on the wells to be located in the W/2 of this partial row of sections.

MR. LCOS: Well, I on the standard 320 which is, gives a acreage factor of one, these wells would have 250 to 307. I think that the regular acreage factor of this acreage assigned to each well would be sufficient.

MR. NUTTER: In other words, the proportion that the acreage in each one of these proration units bears to 320 acres.

MR. LOOS: Yes, sir.

MR. NUTTER: That is all.

MR. MANKIN: Did you have anything further Mr. Nutter?

MR. NUTTER: No, I have nothing further.

MR. MANKIN: Mr. Utz.

MR. UTZ: Elvis Utz. In regard to the 12-18 in the . . . The well that has already been drilled in the E/2 of Section 18, 30 North and 7 West, is this well completed above the high water mark?

MR. LOOS: Yes, sir. It is a non-standard location if I remember correctly. It is 2500 from the north and 2500 from the east which . . . I forgot the elevation. We made sure that it was above the water level of the lake.

MR. UTZ: According to our contour map it is in the water.

MR. LOOS: The Federal Government, the Oil Conservation Commission, I mean the Bureau of Reclamation informed us, I believe, two years ago that we were not to have locations below 6139. They say that their lake level would be 6100 feet, and, therefore, when we stake a location we obtain the elevation at the same time and if it is below 6100, well then, we change our location and we have a great number of wells within the Northeast Blanco Unit that are non-standard locations due to that one fact.

MR. SETH: Are some of those on pilings?

MR. LOOS: We will have one that will be on pilings.

MR. UTZ: That is all I have.

MR. GURLEY: No questions.

MR. MANKIN: Do you have anything else? Is there any further questions of the witness? If not the witness may be excused. Do you wish

to enter this as an exhibit?

MR. SETH: We would like to offer Exhibit One.

MR. MANKIN: Is there objection to the entering of Exhibit One in the combined cases for the purpose of testimony in these cases? If not, it will be so entered. We will take the cases under advisement and the hearing is adjourned.

STATE OF NEW MEXICO)

COUNTY OF SANTA FE)

I, Bobby Postlewaite, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Commission Examiner at Santa Fe, New Mexico, is a true and correct record, to the best of my knowledge, skill and ability.

Dated at Santa Fe, New Mexico this 15th day of February, 1956.

Bobby Pootlewaite

Antica Prominder of City.
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292 8W23-25-11 460MP

12000

TAPICITO PICTURED CLIFFS #20x320 ACRE
INTERFERRENCE TEST DATA (25c × /00 J

SOUTHERN UNION GAS GOMPANY BURT BUILDING

EXPLORATION DEPARTMENT

A.M. WIEDERKEHR

DALLAS 1, TEXAS

February 6, 1958

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

Date	Csg. Pressure	Tbg. Pressure
February 3	1056	1054

Production from the offset wells has been:

	January
Jicarilla 2-D	12,000
Jicarilla 5-D	32,781

Yours very truly,

SOUTHERN UNION GAS COMPANY

4-D & 3786' - 11730# 5-D & 3857' - 613.8# (Closing) 2-0 & 8790' - 753.8# (floring)



P. O. BOX 815
FARMINGTON, NEW MEXICO
February 14, 1958

New Mexico Cil Conservation Commission P. C. Box 871 Santa Fe, New Mexico

Centlemen:

This is to certify that on February 3, 1958, the following shut-in pressures were taken with a dead weight gauge on Southern Union Gas Company's Jicarilla No. 2-D well, located in the Southwest quarter (SW/h) Section 29, Township 26 North, Range 3 West, Rio Arriba County, New Mexico; Jicarilla No. 4-D well, located in the Southeast quarter (SE/h) Northeast quarter (NE/h) Section 30, Township 26 North, Range 3 West, Rio Arriba County, New Mexico; and Jicarilla No. 5-D well, located in the Southwest quarter (SW/h) Section 30, Township 26 North, Range 3 West, Rio Arriba County, New Mexico.

Southern Union Gas Company, Jicarilla No. 2-D FTP 467 psi FCP 613 psi

Southern Union Cas Company, Jicarilla No. 4-D STIP 1054 psi SICP 1056 psi

Southern Union Cas Company, Jicarilla No. 5-D FTP 596 psi FCP 619 psi

WITNESS:

Very truly yours,

A. R. Kendrick

Thomas E. Fenno Jr. Engineer

TEF:mbw

cc: Oil Conservation Commission - Aztec, N.M. Mr. A. M. Wiederkehr - Dallas Mr. Paul J. Clote - Farmington File

1906 1 19-58

SOUTHFUN UNION GAS GOMPANY
BURT BUILDING
DALLAS 1, TEXAS

January 16, 1958

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

EXPLORATION DEPARTMENT

A M. WIEDERKEHR 0: 20

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

Date	Csg. Pressure	Tog. Pressure
January 3	1057 1	1055
Production from the	offset wells has be	en:
	Tec	ember

Jicarilla 2-D 11,944
Jicarilla 5-D 28,483

Yours very truly,

SOUTHERN UNION GAS COMPANY

MUSCLE HOLD

AMW:t

MAR CIPACE OCC Southern Tunion Gas

180 day o All 3:18

DRILLING AND GEOLOGICAL
P. O. BOX 815
FARMINGTON, NEW MEXICO

January 6, 1958

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

Gentlemen:

This is to certify that on January 3, 1958, the following shut-in pressures were taken with a dead weight gauge on Southern Union Gas Company's Jicarilla No. 2-D well, located in the Southwest quarter (SW/4), Section 29, Township 26 North, Range 3 West, Rio Arriba County, New Mexico; Jicarilla No. 4-D well, located in the Southeast quarter (SE/4), Northeast quarter (NE/4), Section 30, Township 26 North, Range 3 West, Rio Arriba County, New Mexico; and Jicarilla No. 5-D well, located in the Southwest quarter (SW/4), Section 30, Township 26 North, Range 3 West, Rio Arriba County, New Mexico.

Southern Union Gas Company, Jicarilla No. 2-D FTP 631 psi FCP 655 psi

Southern Union Gas Company, Jicarilla No. 4-DV SITP 1055 psi SICP 10572 psi

Scuthern Union Gas Company, Jicarilla No. 5-D' FTP 610 psi FCP 625 psi

Very truly yours,

Thomas E. Fenno Jr. Engineer

TEF: pss

cc: Oil Conservation Commission - Aztec, New Mexico
Mr. A. M. Wiederkehr - Dallas
Mr. Paul J. Clote - Farmington
File

Union Gas

Zall.

1058

DRILLING AND GEOLOGICAL P. O. BOX 815 FARMINGTON, NEW MEXICO

December 9. 1957

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

Gentlemen:

This is to certify that on December 6, 1957, the following shut-in pressures were taken with a dead weight gauge on Southern Union Gas Company's Jicarilla No. 2-D well, located in the Southwest quarter (SW/4), Section 29, Township 26 North, Range 3 West, Rio Arriba County, New Mexico. Jicarilla No. 4-D well, located in the Southeast quarter (SE/4), Northeast quarter (NE/4), Section 30, Township 26 North, Range 3 West, Rio Arriba County, New Mexico. Jicarilla No. 5-D well, located in the Southwest quarter (SW/4), Section 30, Township 26 North, Range 3 West, Rio Arriba County. County, New Mexico.

Southern Union Gas Company, Jicarilla No. 2-D. FTP 660 psi FCP 683 psi

Southern Union Gas Company, Jicarilla No. 4-D SITP 1057 psi SICP 1058½ psi

Southern Union Gas Company, Jicarilla No. 5-D. FTP 643 psi FCP 656 psi

The above test was witnessed by Mr. A. R. Kendrick of the Aztec Office of the Oil Conservation Commission.

Very truly your,

Shamas I. I uma Thomas E. Fenno Jr. Engineer

Witness:

A. R. Kendrick

TEF:ps

cc: Oil Conservation Commission - Aztec, New Mexico

Mr. A. M. Wiederkehr_- Dallas Mr. Paul J. Clote - Farmington File

SOUTHERN UNION GAS GOMPANY BURT BUILDING

EXPLORATION DEPARTMENT

A.M. WIEDERKEHR W 0:19 Dallas 1, Texas

December 9, 1957

Mr. Klvis A. Utz New Mexico Oil Conservation Commission P. 0. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

Date

Csg. Pressure Tbg. Pressure

November 8

1058

1057

Production from the offset wells has been:

November

Jicarilla 2-D

Jicarilla 5-D

1987 23328

Yours very truly,

SOUTHERN UNION GAS COMPANY

aMuseder Sels

HAM OFFICE CCC Southern Union Gas Company EXPLORATION DEPARTMENT

BURT BUILDING DALLAS 1, TEXAS

A.M. WEDERKEHF 11 AT 8 143

November 8, 1957

- 11-12-57

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

> Csg. Pressure Tog. Pressure Date October 8, 1957 $1061\frac{1}{2}$ 1060

Production from the offset wells has been:

October 14380 Jicarilla 2-D Jicarilla 5-D 26496 TOPPE

Yours very truly,

SOUTHERN UNION GAS COMPANY

MWaderall

AMW:t



DRILLING AND GEOLOGICAL P. O. BOX 815 FARMINGTON, NEW MEXICO October 9, 1997

New Mexico Oil Conservation Commission 2. 0. Bom 371 Santa Pe, New Mexico

Gentlemen:

This is to certify that an October 8, 1957, We following shut-in pressures were taken with added weight gauge on Southern Union Gas Company's Jicarilla Ma-B well, located in the south-east quarter, (SD/h), north-ease quarter (ED/h), Section-30, Township 26 north, Hange 3 west, Rio Arriba County, New Mexico.

1061) psig.

The following flowing pressures were taken or the Jicarilla 2-D and the Jicarilla 3-D and the Jicarilla %-D wells. These two rolls are off-sets to be Jicarilla %-D.

<u> </u>	LCONTROL	imorana bandaeren
Jicerille (V-D	11/h, 31/h, Sec. 29, 3-261, R-31, Rio Irriba	Ambing - 511 years.
	Soundy, New Herrico	Casing - 935.psig.
Jicarilla (5-D	//k, St/k, Sec. 30, 9-261, R-3%, A is Rio	Mubing - 512 psig.
	Amnica County, New Newsico	- Gasing - 550/psig.

The above tests there witnessed by Ir. Ton lenne of Southern Union Gas do.

Very bruly yours,

Gilbert Holand, Jr.

Jam Le

GII infra

oe: 033 Conservation Contission - Intoe, T.T. on. A. M. Discovinion - Diffes | Into San Carl E. Chair - Dan in ten

MAN EXPLORATION DEPARTMENT

1937 GOT 11 MARAGER 5

SOUTHERN UNION GAS COMPANY BURT BUILDING DALLAS 1, TEXAS

October 9, 1957

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

Date	Csg. Pressure	Tbg. Pressure
September 17, 1957	1063 1	1061 ½

Production from the offset wells has been:

	September
Jicarilla 2-D	221.32
Jicarilla 5-D	40439
	67(7)

Yours very truly,

SOUTHERN UNION GAS COMPANY

MWaederlah)

AMW:t

MAIN OFFICE OCC 1957 SEP 23 All 6.33



DRILLING AND GEOLOGICAL P. O. BOX 815 FARMINGTON, NEW MEXICO September 20, 1957

New Mexico Oil Conservation Commission P. C. Eox 871 Santa Fe, New Mexico

Gentlemen:

This is to certify that on September 17, 1957, the following shut-in pressures were taken with a dead weight gauge on Southern Union Cas Company's Jicarilla #4-D Well, located in the South-East quarter (SE/4), North-East quarter (NE/4), Section 30, Township 26 north, Range 3 west, Rio Arriba County, New Mexico.

Southern Union Cas, Jicarilla #4-D C.F. $1063\frac{1}{2}$ T.P. 1061

The above test was witnessed by Mr. Vernon J. Lowe of the Southern Union Cas Company.

WITNESS:

Very truly yours,

Hillert Moland & Gilbert Noland, Jr.

GN/mbw

Oil Conservation Commission - Aztec, N.H. Mr. A. M. Wiederkehr - Dallas

Mr. Paul J. Clote - Farmington

File

MAIN OFFICE SOUTHERN UNION GAS GOMPANY
BURT BUILDING EXPLORATION DEPARTMENT DALLAS 1, TEXAS 8:09

> Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871

Dear Mr. Utz:

Santa Fe, New Mexico

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

September 6, 1957

Date	Csg. Pressure	Tbg. Pressure
August 13, 1957	1064 <u>2</u>	1062 1

Production from the offset wells has been:

	July	August
Jicarilla 2-D	235	9244
Jicarilla 5-D	515 31	46151

Yours very truly,

SOUTHERN UNION GAS COMPANY amwadishih

AMW:t

MAIN OFFICE OCE South of Union Gas

1957 AUG 23 AM 8:22

DRILLING AND GEOLOGICAL
P. O. BOX 815
FARMINGTON, NEW MEXICO

August 19, 1957

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

Centlemen:

This is to certify that on August 13, 1957, the following shut-in pressures were taken with a dead weight gauge on the Southern Union Gas Company's Jicarilla #4-D well, located in the Southesat Quarter (SE/4), Northeast Quarter (NE/4), Section 30, Township 26 North, Range 3 West, Rio Arriba County, New Mexico.

Southern Union Gas Company Jicarilla #4-D SICP 1064 1/2 - SITP 1062 1/2

The above test was witnessed by Mr. Patrick J. Eldredge of the Southern Union Gas Company.

Very truly yours,

Gilbert Noland, Jr.

Patrick J. Eldredge

GN:pss

cc: Oil Conservation Commission

Mr. A. M. Wiederkehr Mr. Paul J. Clote

Mr. Vars Bates

File

SOUTHERN UNION GAS COMPANY BURT BUILDING

Dallas ., Texas

A.M. WIEDFREHR
MANAGER

MANAGER

77 July 16, 1957

El.

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

EXPLORATION DEPARTMENT

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

Date	Csg. Pressure	Tog. Pressure
July 1, 1957	1065	1063

Production from the offset wells has been:

June
Jicarilla 2-D 3,181
Jicarilla 5-D 34,638

Yours very truly,

SOUTHERN UNION GAS COMPANY

AM Wallshill

AMW:t



July 8, 1957

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

Gentlemen:

This is to certify that on July 1, 1957 the following shut-in pressures were taken with a Dead Weight Gauge on the Southern Union Gas Company's Jicarilla #4-D Well, located in the Southeast Quarter (SE 1/4), Northeast Quarter (NE1/4), Section 30, Township 26 North, Range 3 West, Rio Arriba County, New Mexico.

Southern Union Gas Company Jicarilla #4-D SICP 1065 1/2 SITP 1063 1/2

The above test was witnessed by Mr. Fred Cook of the Aztec office of the Oil Conservation Commission.

GM:pss

Witness:

Mr. Fred Coo

Oil Conservation Commission

Mr. A. M. Wiederkehr

Mr. Paul Clote Mr. Vars Bates

File

SOUTHERN UNION GAS COMPANY BURT BUILDIN, DALLAS 1, TEXAS

A.M. WIEDERKEHR

MANAGER

EXPLORATION DEPARTMENT

June 6, 1957

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

Date

Csg. Pressure

Tog. Pressure

May 6, 1957

1066

1064출

Production from the offset wells has been:

MA

Jicarilla 2-D Jicarilla 5-D

3,492 43,655

Yours very truly,

SOUTHERN UNION GAS COMPANY

Mideshall



May 17, 1957

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

Gentlemen:

This is to certify that on May 6, 1957 the following shut-in pressures were taken with a Dead Weight Gauge on the Southern Union Gas Company's Jicarilla #1-D Well, located in the Southeast Quarter (SE2), Northeast Quarter (NE2), Section 30, Township 26 North, Range 3 West, Rio Arriba County, New Mexico.

> Southern Union Gas Co. Jicarilla #4-D SICP 1066 psig SITP 1064 psig

The above test was witnessed by Mr. A. R. Kendrick of the Aztec Office of the Oil Conservation Commission.

Very truly yours,

Gilbert Noland, Jr. Jr. Engineer

Witness:

cc: Oil Conservation Commission

120 E. Chaco, Aztec, New Mexico

cc: Mr. A. M. Wiederkehr - Dallas cc: Mr. Paul J. Clote - Farmington

cc: Mr. Vars Bates - Farmington

cc: File

SOUTHERN UNION GAS COMPANY
BURT BUILDING
DALLAS 1, TEXAS

EXPLORATION DEPARTMENT

A.M. WIEDERKEHR

A, M, WIEDERKEHR MANAGER

May 20, 1957

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

Date	Csg. Pressure	Tbg. Pressure
April 6, 1957	1066	10642

Production from the offset wells has been:

	APRIL
Jicarilla 2-D	1,315
Jicarilla 5-D	36,586

Yours very truly,

SOUTHERN UNION GAS COMPANY

A. M. Willeskehn



April 9, 1957

New Mexico Oil Conservation Commission P. 0. Box 871 Santa Fe, New Mexico

Gentlemen:

This is to certify that on April 8, 1957 the following shut-in pressures were taken with a dead weight gauge on the Southern Union Gas Company's Jicarilla #4-D well, located in the Southeast Quarter (SE), Northeast Quarter (NE2), Section 30, Township 26 North, Range 3 West, Rio Arriba County, New Mexico.

> Southern Union Gas Company Jicarilla #4-D SICP 1066 psig STTP 1064 psig

The above test was witnessed by Mr. A. R. Kendrick of the Aztec Office of the Oil Conservation Commission.

Witness:

Gilbert Noland, Jr. Jr. Engineer

cc: Oil Conservation Commission

120 E. Chaco, Aztec, New Mexico

cc: Mr. A. M. Wiederkehr - Dallas

cc: Mr. Paul J. Clote - Farmington cc: Mr. Vars Pates - Farmington

cc: File

SOUTHERN UNION GAS COMPANY
BURT BUILDING
DALLAS 1, TEXAS

EXPLORATION DEPARTMENT

A, M. WIEDERKEHR

April 8, 1957

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

Date Csg. Pressure Tbg. Pressure

March 11 $1065\frac{1}{2}$ $1064\frac{1}{2}$

Production from the offset wells has been:

March

Jicarilla 2-D Jicarilla 5-D 2,093 · 45,478

WWW. Leval

Yours very truly,

SOUTHERN UNION GAS COMPANY



March 12, 1957

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

Gentlemen:

This is to certify that on March 11, 1957 the following shut-in pressures were taken with a Dead Weight Gauge on the Southern Union Gas Company's Jicarilla #4-D well located in the Southeast Quarter (SE₂), Northeast Quarter (NE₂), Section 30, Township 26 North, Range 3 West, Rio Arriba County, New Mexico.

Southern Union Gas Co. Jicarilla #4-D SICP 1005\frac{1}{2} SITP 1064\frac{1}{2}

Well Head Temp.

The above test was witnessed by Mr. E. C. Armold of the Aztec Office of the Oil Conservation Commission.

Very truly yours,

Gilbert Noland, Jr.

Jr. Engineer

Witness:

E. C. Arnold

cc: Oil Conservation Commission

120 E. Chaco, Aztec, New Mexico

cc: Mr. A. M. Wiederkehr

cc: Mr. Paul Clote

cc: Mr. Vars Bates

cc: File

Ch

SOUTHERN UNION GAS COMPANY BURT BUILDING

EXPLORATION DEPARTMENT

A.M. WIEDERKEHR

DALLAS 1, TEXAS

March 7, 1957

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

Date

Csg. Pressure

Tbg. Pressure

1064

1064

Production from the offset wells has been:

February

Jicarilla 2-D Jicarilla 5-D 2,840 44,904

Yours very truly,

SOUTHERN UNION GAS COMPANY



February 12, 1957

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

Gentlemen:

This is to certify that on February 11, 1957 the following shut-in pressures were taken with a Dead Weight Gauge on the Southern Union Gas Company's Jicarilla #4-D well located in the Southeast Quarter (SE4), Northeast Quarter (NE4), Section 30, Township 26 North, Range 3 West, Rio Arriba County, New Mexico.

Well Head Temp.

Southern Union Gas Co. Jicarilla #4-D SICP 1065 SITP 1064

50°F

Very truly yours,

Gilbert Noland, Jr.

cc: Oil Conservation Commission

120 E. Chaco, Aztec, New Mexico cc: Mr. A. M. Wiederkehr

cc: Mr. Vars Bates

Southern Union Gas Company EXPLORATION DEPARTMENT
February 12, 1957

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

> Csg. Pressure Tbg. Pressure 4-0 January 14, 1957 1065 1064

Production from the offset wells has been:

January Jicarilla 2-D 4,019 Jicarilla 5-D 54,536

Yours very truly,

SOUTHERN UNION GAS COMPANY 1-M. Cettedeskels



FARMINGTON, NEW MEXICO

Jamuary 16, 1957

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

Gentlemen:

This is to certify that on January 14, 1957 the following shut-in pressures were taken with Dead Weight Gauge on the Southern Union Gas Company's Jicarilla #4-D well located in the Southeast Quarter (SE_2^1), Northeast Quarter (NE_2^1), Section 30, Township 26 North, Range 3 West, Rio Arriba County, New Mexico.

S. U. G. Jicarilla #4-D SICP 1065

Well Head Temp.

The above test was witnessed by Mr. A. R. Kendrick of the Aztec Office of the Oil Conservation Commission.

Witness:

A. R. Kendrick

Gilbert Noland, Jr. Jr. Engineer

cc: Oil Conservation Commission

120 E. Chaco, Aztec, N. Mex.

cc: Mr. A. M. Wiederkehr

cc: Mr. Vars Bates

SOUTHERN UNION GAS COMPANY BURT BUILDING DALLAS 1, TEXAS

EXPLORATION DEPARTMENT A M WIEDERKEHR

January 7, 1957

Auto 21 E

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

Date	Csg. Pressure	Tog. Pressure
Jicarilla 2-E December 2	1068	1066
Jicarilla 4-D December 17	1065	1064
	an han boom!	

Production from the offset wells has been:

	December
	45504 -
Jicarilla 1-E	17022
Jicarilla 3-E	36730
Jicarilla 4-E	4728
Jicarilla 2-D	51550 -
Jicarilla 5-D	

Yours very truly,

SOUTHERN UNION GAS COMPANY

111 Wiestrick



December 27, 1956

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

Gentlemen:

I have been informed by Mr. A. M. Wiederkehr that the interference tests on Southern Union Gas Company 's Jicarilla #2-E well have been completed and that Southern Union is to conduct a similar test on their Jicarilla #4-D well located SE1, NE1, Sec. 30, T-26N, R-3W.

Southern Union's Jicarilla 5-D well; located NE2, Sw2, Sec. 30, T-26N, R-3W, and Jicarilla 2-D well; located NE2, Sw2, Sec. 29, T-26N, R-3W; are to be produced unrestricted into the line as offset wells.

The first shut-in pressures were taken on the Jicarilla #4-D well on December (17,) 1956 with the following results:

S.U.G. Jicarilla #4-D SICP 1065

Well head Temp. 55**%**

All pressures will be taken with a dead weight pressure gauge every two weeks.

The above test was witnessed by Mr. A. R. Kendrick of the Aztec Office of the Oil Conservation Commission.

Witness:

a. R. Kenedrick

A. R. Kendrick

Very truly yours

Gilbert Noland, Jr.

Jr. Engineer

cc: Oil Conservation Commission

120 E. Chaco, Aztec, N. Mex. cc: Mr. Foster Morrell

P.O. Box 933, Roswell, N. Mex.

cc: Mr. A. M. Wiederkehr cc: Mr. H . C. Montgomery

cc: Mr. Vars Bates

Southern Union Gas Company

EXPLORATION DEPARTMENT

A.M.WIEDERKEHR

BURT BUILDING
DALLAS 1, TEXAS

December 10, 1956

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

Date	Csg. Pressure	Tog. Pressure
November 5	1072	1070
November 19	1070/	1068

Production from the offset wells has been:

	November
Jicarilla 1-E Jicarilla 3-E Jicarilla 4-E	42,833 8,747 28,250
	• •

Yours very truly,

SOUTHERN UNION GAS COMPANY

a.M. Wielikel



November 20, 1956

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

Gentlemen:

This is to certify that on November 19, 1956 the following shut-in pressures were taken with a Dead Weight Cauge on the Southern Union Gas Company's Jicarilla #2-E well located in the Northeast Quarter (NE_{4}^{1}), Southwest Quarter (SW_{2}^{1}), Section 15, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.

This test is in accordance with the Oil Conservation Commission Case No. 977, Order No. R-794.

Southern Union Gas Co. Jicarilla #2-E SICP 1070 psig 50°F SITP 1068 psig 50°F

The above test was witnessed by Mr. A. R. Kendrick of the Aztec Office of the Oil Conservation Commission.

Very truly yours,

(300

LZ, Ublix /lotan Gilbert Noland, Jr.

Jr. Engineer

I.K.K.

Witness:

A. R. Kendrick

cc: Oil Conservation Commission

P.O. Box 697

Aztec, New Mexico

cc: Mr. A. M. Wiederkehr

cc: Mr. H. C. Montgomery

cc: Mr. Vars Bates

19.

MARK OPPIOR COSOUTHERN UNION GAS COMPANY

EXPLORATION DEPARTMENT

BURT BUILDING
DALLAS 1, TEXAS

A.M. WIEDERKEHR () 11 0 1 50

November 8, 1956

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

Date	Csg. Pressure	Tbg. Pressure
October 8	1077	1075
October 22	1072 . 5	1074.5

Production from the offset wells has been:

			October
Jicarilla Jicarilla Jicarilla	3 - E		56342 21235 43817

Reference our letter of October 9th giving the pressures and production for the month of September. We inadvertently showed the month as August and this should have read September as the production shown was for the month of September.

Yours very truly,

SOUTHERN UNION GAS COMPANY

a M. Miederkeke



October 23, 1956

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

Gentlemen:

This is to certify that on October 22, 1956 the following shutin pressures were taken with a Dead Weight Gauge on the Southern Union
Gas Company's Jicarilla #2=E well located in the Northeast Quarter (NE2)
Scutheast Quarter SE2), Section 15, Township 26 North, Range 4 West, Rio
Arriba County, New Mexico.

This test is in accordance with the Oil Conservation Commission Case No. 977, Order No. R-794.

S.U.G. Jicarilla #2-E

SITP 1072.5 SICP 1074.5 Well Head Temp. 70°F

The above test was witnessed by Mr. A. R. Kendrick of the Aztec Office of the Oil Conservation Commission.

Witness:

A. R. Kendrick

10 . 0

Gilbert Noland, Jr.

Jr. Engineer

cc: Oil Conservation Commission

P. O. Box 697

Aztec, New Mexico

cc: Mr. A. M. Wiederkehr cc: Mr. H. C. Montgomery

cc: Mr. Vars Bates

MAIN OFFICE OCSOUTHERN UNION GAS COMPANY
EPARTMENT BURT BUILDING EXPLORATION DEPARTMENT

A.M. WIEDERKEHR

October 9, 1956

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapacito Field:

Date	Cag. Pressure	Tbg. Pressure
September 11	1081	3.079
September 25	1079	1078 1077 ~
Production from the off	•	Qept,
	Au	gust
Jicarilla 1-E		60171
Jicarilla 3-E		25812
Jicarilla 4-E		7830K

Yours very truly,

SOUTHERN UNION GAS COMPANY

a.Musedishih

1000P 1 H 8103



DRILLING AND GEOLOGICAL P. O. BOX 815 FARMINGTON, NEW MEXICO

September 25, 1956

New Mexico Oil Conservation Commission P. 0. Box 871 Santa Fe, New Mexico

Gentlemen:

This is to certify that on September 24, 1956 the following shut-in pressures were taken with a Dead Weight Gauge on the Southern Union Gas Company's Jicarilla #2-E well located in the Northeast Quarter (NE $\frac{1}{4}$), Southwest Quarter (SI $\frac{1}{4}$), Section 15, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.

This test is in accordance with the Oil Conservation Commission Case No. 977, Order No. R-794.

> S.U.G. Jicarilla #2-E SICP 1079 PSIC SITP 1077 PSIG

Well Head Temp. 82°F 82°F

The above test was witnessed by Mr. A. R. Kendrick of the Aztec Office of the Oil Conservation Commission.

Very truly yours,

Gilbert Holand, Jr. Jr. Engineer

cc: Oil Conservation Commission

P.O. Box 697

Aztec, New Mexico

cc: Mr. A. M. Wiederkehr

cc: Mr. H. C. Montgomery

cc: Mr. Vars B ates

EXPLORATION DEPARTMENT

BURT BUILDING

DALLAS 1, TEXAS

MANAGER

MANAGER

DALLAS 1, TEXAS

September 6, 1956

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz;

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the

Date	Con D	
August 15	Cag. Pressure	Tbg. Pressure
August 28	1084 1083	1082
rioduction from the	offset wells has been:	

Jicarilla 1-E August

Jicarilla 1-E
Jicarilla 3-E
Jicarilla 4-E

31388
51845

Yours very truly,

SOUTHERN UNION GAS COMPANY

UM Wederley



August 28, 1956

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

Gentlemen:

This is to certify that on August 27, 1956 the following shut-in pressures were taken with a Dead Weight Gauge on the Southern Union Gas Company's Jicarilla #2-E well located in the Northeast Quarter (NE2), Southwest Quarter (SW2), Section 15, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.

This test is in accordance with the Oil Conservation Commissions Case No. 977, Order No. R-794.

S.W.G. Ficarilla #2-E - SICP 1083 psig SITP 1080 psig Well Head Temp. 75°F 75°F

The above test was witnessed by Mr. A. R. Kendrick of the Aztec Office of the Cil Conservation Commission.

Witness:

A. R. Kendrick

Very truly yours,

Gilbert Noland, Jr.

Jr. Engineer

cc: Oil Conservation Commission

P.O. Box 697

Aztec, New Mexico

cc: Mr. A. M. Wiederkehr

cc: Mr. H. C. Montgomery

cc: Mr. Vars Bates

SOUTHERN UNION GAS COMPANY BURT (EMILDING
M DALLAS I, TEXAS

EXPLORATION DEPARTMENT

A. M. WIEDERKEHR

August 7, 1956

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapicito Field:

Date	Cag. Pressure	Tbg. Pressure
	1086.5	1084.5 1083
July 31	1086.5 1086 /	1083
Production form the offset	rells has been:	
		fuly
Jicarilla 1-E		2859
Jicarilla 3-E		0869 1467
Jicarilla 4-E).	r40(

Yours very truly,

SOUTHERN UNION GAS COMPANY

a.M. Wiederkeler

MAIN OFFICE OCC

Souther Inion Gas

ESC AUG 6 W 8 7 21

DRILLING AND GEOLOGICAL P. O. BOX 815 FARMINGTON, NEW MEXICO

July 31, 1956.

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

Gentlemen:

This is to certify that on July 30,1956, the following shut-in pressures were taken, with a Dead Weight Gauge, on the Southern Union Gas Company's Jicarilla #2-E well located in the NE4, SW4, Section 15, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.

This test is in accordance with the Oil Conservation Commission's Case No. 977, Order No. R-794.

> S.U.G. Jicarilla #2-E: SICP 1086 psig SITP 1083 psig

Well Head Temperature 75° F.

The above test was witnessed by Mr. Fred Cock of the Aztec Office of the Oil Conservation Commission.

Witness: Full Cook Fred Cook

Hery truly yours, Helbert Holand J.

Gilbert Noland, Jr. Jr. Engineer

GN:ml

cc: Oil Conservation Commission P. O. Box 697 Aztec, New Mexico

cc: Mr. A. M. Wiederkehr

cc: Mr. H. C. Montgomery

cc: Mr. Vars Bates

HAM OFFICE OCC SOUTHERN UNION GAS COMPANY BURT BUILDING

EXPLORATION DEPARTMENT

DALLAS 1, TEXAS

A.M. WIEDERHEHR S FN 1:17

July 6, 1956

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Utz:

Reference is made to Order No. R-794, we have tabulated below information regarding interference tests now being conducted in the Tapicito Field:

<u>Date</u>	Csg. Pressure	Tbg. Pressure
June 19 July 3	1088.5 1088	1085.5 1085
Production from the offset	wells has been:	
	May	June
Jicarilla 1-E Jicarilla 3-E Jicarilla 4-E	70263 38681 / 61937	64229 28 0 63 5 2 806

Yours very truly,

SOUTHERN UNION GAS COMPANY

AM Weelerhein

AIW:t

Union Gas MAIN OFFICE OCC Southerp 1955 JUL 6 Ni e: 04

> DRILLING AND GEOLOGICAL FARMINGTON, NEW MEXICO

> > July 3, 1956

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

Gentlemen:

This to certify that on July 2, 1956, the following shut-in pressures were taken, with a Dead Weight Gauge, on the Southern Union Gas Company's Jicarilla #2-E well located in the NE 1/4, SW 1/4, Section 15, Township 26 North, Range h West, Rio Arriba County, New Mexico.

This test is in accordance with the Oil Conservation Commission's Case No. 977, Order No. R-794.

Well Head Temperature Jan 20135 S.U.G. Jicarilla #2-E: SICP 1088 paig SITP 1085 paig 800 F. 800 F.

The above test was witnessed by Mr. Fred Cook of the Aztec Office of the Oil Conservation Commission.

Very truly yours,

Hillent Noland,

Gilbert Noland, Jr.

Jr. Engineer

GDN: mg

cc: Oil Conservation Commission P.O. Box 697 Aztec, New Mexico

> Mr. A. M. Wiederkehr Mr. H .C. Montgomery Mr. Vars Bates

MAIN OFFICE OCC 1956 JUN 7 AN 6:12



DRILLING AND GEOLOGICAL P. O. BOX 815 FARMINGTON, NEW MEXICO

June 5, 1956

New Mexico Oil Conservation Commission Santa Fe, New Mexico

Gentlemen:

This is to certify that on June 4, 1956 the following shut-in pressures were taken, with a Dead Weight Guage, on the Southern Union Gas Company's Jicarilla #2-E well located in the NE4, SW2, Section 15, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.

This test is in accordance with the Oil Conservation Commissions Case No. 977, Order No. R-794.

S.U.G. Jicarilla #2-E - SICP 1089 PSIG 85° F --Well Head Temp. STTP 1086 PSIG 850 F

The above test was witnessed by Mr. Fred Cook of the Aztec Office of the Oil Conservation Commission.

Very truly yours,

Gilbert Noland, Jr. Jr. Engineer

cc: Oil Conservation Comm. Box 697

Aztec, New Mexico

cc: Mr. A. M. Wiederkehr cc: Mr. H. C. Montgomery

cc: Mr. Vars Bates

Fred Cook

MAIN OFFICE OUC BURT BUILDING DALLAS 1, TEXAS

EXPLORATION DERARTMENT A.M.WIEDERKEHR

M 8:11

June 4, 1956

C-977

Mr. Elvis A. Utz New Mexico Oil Conservation Commission P. 0. Box 871 Santa Fe, New Mexico

I have a note from Art Grenier requesting that you be furnished Dear Mr. Utz: with information with regard to the interference tests now being conducted in the Tapicito Field.

I had thought that your men in Aztec would give you the pressures but apparently they have not so I am tabulating below the information accumulated to date. Pressure

O ORCO.	Cag. Pressure	Tog. Pressuro
Date Jan. 26 Feb. 9	1.090 1.088 1.089 • 5 1.089 • 5	1087.5 1086 1086.5 1087.5
April 19 May 7	1089	1086
May 22	200001	

Production from the offset wells has been:

Production 110m	Feb.	March	April
Jicarilla 1-E Jicarilla 3-E	32,225 40,562	45,676 6,047 43,566	50,867 34,920 54,861
Jicarilla 4-E	,,,		- they are

We shall forward the monthly production figures as they are available and if there is other information which you need, please let us hear from you.

Yours very truly,

SOUTHERN UNION GAS COMPANY a Mweederful

SOUTHERN UNION GAS GOMPANX
BURT BUILDING

THAN 1, TEXAS

10 2:25

EXPLORATION DEPARTMENT

A.M. WIEDERKEHR MANAGER

Mr. Elvis Utz New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Maxico

Dear Elvis:

I am sending you a copy of the work done by Phillips Petroleum Company on our 1-E Jicarilla as per your request of several weeks ago.

I think we discussed my sending you a copy of the Four Point Test we ran on our Jicarilla 2-K but in checking the files, we note that Santa Fe has already received a copy of this Test as submitted through the district office. In the event you are unable to find this Test, please let me know and I will have a copy forwarded to you.

Yours very truly,

SOUTHERN UNION GAS COMPANY a Mireder Sed

AMW:t

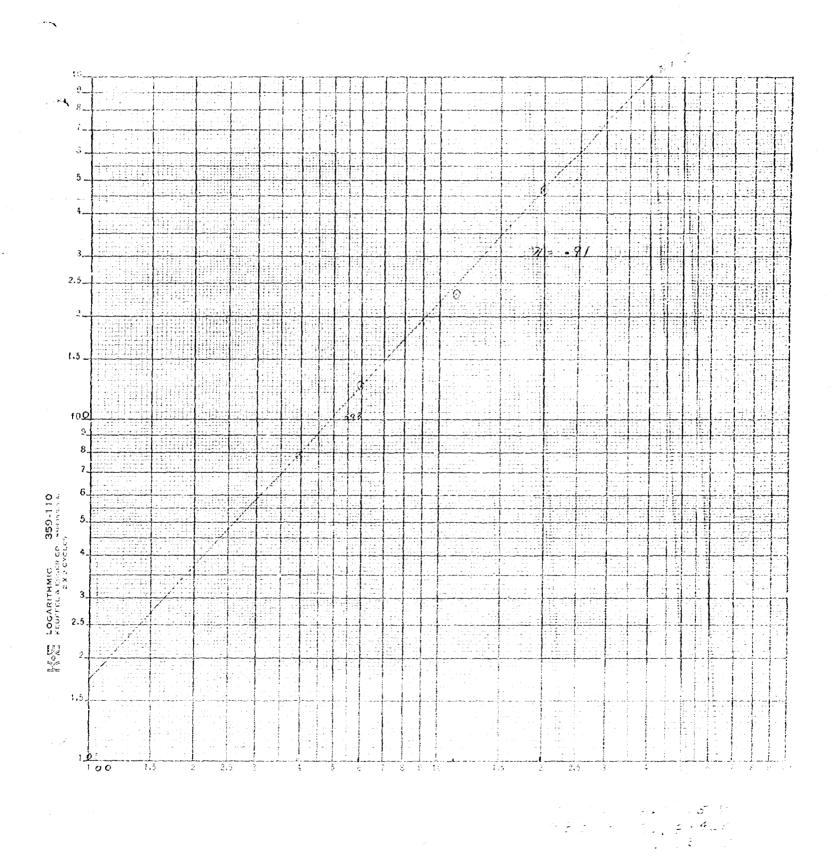
Encls.

126 Gas (2/75/51) "liely i'o. Southern Union LEASE Jicarilla DATE 1-21 PHILLIPS PETROLEUI: COMPANY STATE Hew Mexico SURVEY TATURAL CAS DIVISION PACK-PRESSURE TEST SHEET Rio Arriba BLK. GL COULTY. PERF. RGE. SET AT-BAROIETER PERF. FIELD_ SET AT TYPE COIT. Official CASING SIZE 0? 3416 Retest GAS PAY FROIT METER RUN ·TII X Initial Test DURITION TUBING SIZE 23/8 FLO! MELLHEAD SIZE PROVER OF (P_W) Psia OBSERVED DATA (Hrs.) Flow. (T!P) e^S_ Temp. Psig REMARKS 1061.5 Diff. 1052.5 P_m Psia 1041 hw ORIFICE 65. Static 1029 987 975 SIZE 61 Psig 887 875 PATE OF FLOS Date 7-27-54 1 GRAVITY 5/32" Q-12cfd FLOT TEIP. 7-28-54 2 FLO! CALCULATIONS 14.65 Psia FACTOR 7-29-54 3 WORKING PRESS. FACTOR 7-30-54 4 Fg 395 OH PROVER 9608 507 Psia $\sqrt{P_m h_W}$ 9608 9952 COEFF. "C" 17/17 Psig 1062.5 9608 9962 1989 NO. (24 Hr.) 1050.5 FDY 1032 9608 9952 1020 975 9913 1.108 963 (All squared pressures in thousands) 266 31,99 1.101 5452 1.089 Deys 109 hrs. PRESSURE CALCULATIONS 1088 1087 2.208 Well Shut-in before or after test. $\overline{12}$ 1090 1089 1099 1205.60 sip+ Bar 1112 1207.8 Pc2 - Pw2 Pc2AAXPaX 1100 1210.00 1101 (5) Ps2... Pg (4) 79.0h R^2 (3) x es F^2 126.32 (2) Pf 订 F_d^Q 1111.163 esp 2 10.1 $P_{\eta l}$ 1133.16 1083.68 licfd. Mor Per Day 0 14.65 Psia 971,17 Psia 786.77 Hef Per Day Commission

Company

Pipeline

C. R. Farner ABSOLUTE POTENTIAL Psig ADSOLUTE POTENTIAL STUT-IN MELLHEAD PRESSURE Date_8-4-54 Comprised by W. B. Smith Others_ Shecked by_



Pege ____ of .___ Form 116-Grs (Rev.) 7-22-52 GAS TELL E.P. TEST PRESSURE DEVIDEN DATA Company Southern Union Lease Jicarilla l'ell No. 1-E Deta By: Wagner Vorking Pressure Data | Crit, Plov Prover W.P. Psig (AP) AP/Hr, Psig OF Orifice Time Date Remarks Hrs. of Day 1089 7-27-54 11:20A ...1089_ __1/8_ 2" Prover-Opened Well . 11:25 1058 65 1054 65 1053 65 11:45 1060___ 29 Dry-12:05P 1056 Pressing off slightly 12:25 1054 10521/2-65 1052 65 1051 64 12:40 12:55 1053.5 1053.5 Ice on plate Δ 1125P 1053 1155 1052.5 1051 65 Dry 2:25 1052.5 1050 34 1/2 1056 41 1/2 1055... 50 1054.5 Ω 1054... 12 1053.5 26 1/2 1053.5 1053 44 2 1052.5 5 30_ 1052.5 _ف 3 0 1052.5 Q.

Form 116-Gas (Rev.) Page ____ of ___ 7-22-52 CASTUELL E.P. TEST PRESSURE DEALDOWN DATA - Company Southern Union Lease licerille l'ell No. 1 E Deta By: Wagner Vorking Pressure Data | Crit. Flow Prover W.P. Paig (AP) AP/Hr. Paig OF Orifice Time Date Hrs. of Day Remarks .CSG___ 7-28-54-...Tub. 11:05A 1088 1.1087 -5/32 2" Prove 11:10 Opened Wall 11+30A 1043 1039 -63 11+50A 1036 1032 -64 Ice on plate 12:102 1033 1029 64 1031.5 Freezing off 12+25-1027 1026 1031 12+40 -1:10 1030-5 1021 64 1029.5 1+40-1.0 1055 64 2+10-1029 1020 - 45-64 Ice on bottom of plate 34-1/2 1037 41 1/2 1035 1033 2 -0-1033 a. 12-1032 ·}~ 26 1/2 1031 1030.5 +5 1030 1029.5 -3-0-1029 -5 S.P.GR 647 @ 1:15P

Form 116-Gas (Rev.) 7-22-52

Page ____ of

GAS VELLE, P. TEST PRESSURE DRAIDOWN DATA

Lerse Jicarilla Vell No. 1-E Company Southern Union Dets By: Wagner V.P. Psig (AP) AP/Hr. Psig OF Orifice Time Date of Day Remarks CSG TUB 1086 10:55A 7-29-54 SIP 1087 2" Prover 11:004 Opened Vell 11:20A .62 997_ _90_ 985 Ice on Plate 11:40 984 973 Freezing off .13 .62 12:00N 981 969 63 Damp Dist 12:15P. 979.5 968 1.5. .64 12:30P 978.5 967 64 SI wet dist_& water 1:00P 977.5 966 64 976.5 1:30P 966 65 2:00 975 1.5 963 65. 34 1/2 41 1/2 987 983.5 3.5 50 982 1.5 ٥ 980 12 980 0_ 26 1/2 979 978 977.5 0.5 30 976.5 1.0 ..3. 0 975... 1.5 SPGR 652 @ 1 PH

Form 116-Gas (Rev.) Page ____ of ___ 7-22-52. CAS TELL E.P. TEST PRESSURE DRAIDOUN DATA Compeny _ Lerse_____licarilla____ l'ell No.]_E Southern Union Deta By: Wagner V.P. Psig (AP) AP/Hr. Crit. 1lov Prover Paig OF Orifice Time Date Hrs. of Day Remarks -- CSC---TUB. 7-30-54 10:55A -1086 ---1085 SIP Opened Well 11:00A 21 Prover 11+20-914 172 808 61 Ice-on-plate 11:40 7 907 883 64 Freezing-off-12:00N 897 jo. 871. 64 Sl. wet H20 & Dist. ...7.. 865 890 12+15 64 12+30P 887 860 64 -1:00P 878 9 852 64 1+30P 872 846 6 65 2:00 -275 +3 854 66 Freezing-off 34 1/2 907 41 1/2 905.5 903.5 50 2 1 897-0 6.5 12 891-6 26 1/2 687.5 3.5 880.5 44 878 2.5 2 30 872 6. 43. 875

Care 977 In view of the fact that the well (licarilla 1-A) which we originally specified to be schut-inty has been broduced (86,163)ACF) emknown Its us until money I can suggesting a new interference text to conform with one which at Wiederkeld has already began. See attached Plat for details. The radius of drainage between the 2 E (shift-in) well and its three Offrets are: 3300 A. = 785 Ac. to 2E 3970 pl. = 868 Ac. 3650pt = 960 Ac. The materner parable radius of Drainage under the spacery dule would be 2625 ft obe 497 acres. This test will therefore godequatity pinen 1 3/2 0 Oure of La our Wills consided in the area and thereprod. ito papillis! 1-A connected 1-25-56 86163 MICF 77901 2-16-56 5700 8 2-A 2-16-56 6097 3-29-66 3-E 2386 3-30-56 4-4 89128 2-16-56 4-E 3915

3-30

5. A

Memo

Drom ELVIS A, UTZ Gas Engineer

To Please copy There sheet while and Secul openis

Bill policie a. Mothered Parde. Alhupuerga

J. Ohr

200 Trains

MAIN OFFICE OCC 1057 CCT 265 M 11:37



10-22-5%

DRILLING AND GEOLOGICAL P. O. BOX 815 FARMINGTON, NEW MEXICO

October 21, 1957

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

Gentlemen:

Please find enclosed Bottom Hole Pressure Data on the following Southern Union Gas Company's wells.

WELL

LOCATION

Southern Union (2s Co. Jicarilla #4-D

1650' from North line and 990' from the East line (SE/4, NE/4) Sec. 30, T-26N, R-3W N.M.P.M. Rio Arriba County, New Mexico.

Southern Union Cas Co. Jicarilla #2-D

1650' from South line and 1650' from West line (NE/4, SW/4)
Sec. 29, T-26N, R-3W, N.M.P.M. Rio Arriba County, New Mexico.

Southern Union Gas Co. Jicarilla #5-D

1470' from South line and 1600' from West line (NE/4, SW¹/₄) Sec. 30, T-26N, R-3W N.M.P.M. Rio Arriba County, New Mexico.

These bottom hole pressure tests were run in conjunction with the interference pressure tests currently being conducted on

Southern U nion Cas Company's Jicarilla #4-D well.

Very truly yours,

Gilbert Noland, Jr.

GN:pss

cc: Oil Conservation Commission
120 East Chaco, Aztec, New Mexico Encl.
Mr. A. M. Wiederkehr - Dallas, Encl.
Mr. Paul J. Clote - Farmington

Otis Pressure Control, Inc.

BOTTOM HOLE PRESSURE REPORT WORK OF No. 40803 COMPANY Southern Union Gas Co. 1937 PORLO : Jidanilla DATE 10/8/57 TIME 1600 STATUS OF WELL Floring T.D. 3821 DATUM TOP 3790 BOTTOM 3821 Pin TUBING 3800 DEPTH B.H.C. Plug PACKER CASING 52" DEPTH 3790 PERFS Open Hole LINER TREE TOP Deflection Pressure Gradient Depth Pressure-Feet LBS./FT. PSIG Casing Pressure #DWT #DWT Tubing Pressure 513 .353 513____ Lube 530 Oil Level .366 1000 .017 Water Level 2000 .379 5/19 0-2010 019 Hours - Shut In Flow 3000 ·394 569 . 020 Temp. @ 3800 F. 112° 3500 .402 581 024 Elev.-D.F. 586 3600 .406 .050 Ground 3700 .409 592 060 Last Test Date .412 599 Press. Last Test **PSIG** 3800 .070 #s/ B.H.P. Change DAYS #s/DAY Loss Choke Size Oil Bbls./Day Present Cumulative Last Cumulative Water Bbls./Day Production Production Total Bbls./Day Recovery Factor Production Bbls./Pound Loss Between Tests Orifice Line Calculated by Instrument Static # Diff. <u> 1</u>3030 TF. Gas Sp. Gr. Remarks: Cu. Ft./Day GOR Cu. Ft./Bbl. Cu. Ft./Bbl. GFR P.I. Bbls./Day# Drop

Otis Pressure Control, Inc.

		BOTTOM 1	IOLE PRESSI	JRE REPORT WO	ork Order No	. 1.0663
COMPANY Southern Union Tax Co.				FIELD _	Jicarilla	
	Jicarilla		T-26N R-34). <u>4-D</u>	
DATE	10/8/57	TIME1200		STATUS OF WELL	. Shut-in	
PAY	TOP 3786	воттом ³⁸	T.D.	. 3849 DATUM	٧)	
TUBING	3750 DEPTH	В.н.с.	Pin Plug	PACKE	er	
CASING_	$\frac{4^{\frac{1}{2}n}}{}$ DEPTH ³⁸	49 PERFS. 3786	-3811 ₁	INER	TREE TOP	,
Depth	Deflection	Pressure	Gradient			
Feet	Pressure PSIG	Pressure	LBS./FT.	Casing Pressur	<u>'е</u>	#DWT
Lube	.735	1061		Tubing Pressur	'e 1061	#DWT
1000	755	1094	033	Oil Level		FT.
2000	.780	1128	.034	Water Level		FT.
3000	.805	1162	.034	Hours - Shut I	n	Flow
3500	.818	1180	.036	Temp. @ 3750	F.	113° F.
3600	.821	1185	.050	ElevD.F.	Gro	und
3700	.825	1190	050	Last Test Date		
3750	.830	1199	.180	Press. Last Te	st	PSIG
				B.H.P. Change	#s/	DAYS
				Loss		#s/DAY
				Choke Size		
				Oil Bbls./Day		
Last Cumulative Present Cumulative Production		Lative	Water Bbls./Day	<u>y</u>		
Producti		Recovery Fact	or	Total Bbls./Day	<i>I</i>	
Between Tests Bbls./Pound Lo			Orifice	Li	ne	
Instrument Calcu		Calculated by	7	Static	# Dif	f.
Remarks:			Gas Sp. Gr.	TF.	F	
			न्यास्य । सम्बद्धाः	Cu. Ft./Day		
			ha ha ann ann ann ann ann ann ann ann an	GOR	Cu. Ft	./Bbl.
				GFR	Cu. Ft	./Bbl.
				P.I.	Bbls./r.#	Drop

Otis Pressure Control, Inc.

		BOTTOM	JOLE PRESS	URE REPORT Work	Order No	. 40664
COMPANY	Sout			FIELD J		
LEASE _	Jicarilla	SW ¹ Sec	.30, T-26N,	R-3N WELL NO.	5~D	
				STATUS OF WELL		
				• XX867 3931 DATUM_		
			Pin	gPACKER		
CASING_	<u>41 "</u> DEPTH 39	34 PERFS. 38	60 - 3916]	LINERT	REE TOP	
						•
Depth Feet	Pressure PSIG	Pressure	Gradient LBS./FT.			#DWT
Lube	•352	512		Tubing Pressure		#DWT
1000	.372	540	.028	Oil Level		FT.
2000	.391	567	.027	Water Level		FT.
3000	.405	585	.018	Hours - Shut In		Flow
3500	.412	598	.026	Temp. @ 3867	F,	1120 F.
3600	.414	600	,020	ElevD.F.	Grou	ınd
3700	.416	602	.020	Last Test Date		·
3800	.419	606	. 040	Press. Last Test	·	PSIG
3867	.422	610	.040	B.H.P. Change	#s/	DAYS
				Loss		#s/DAY
				Choke Size		
				Oil Bbls./Day		
Last Cumulative Present Cumulative Production		Lative	Water Bbls./Day			
Production Recovery Factor		or	Total Bbls./Day			
Between Tests Bbls./Pound Loss Calculated by # 13030			Orifice	Li	ne	
		r 	Static	# Dif	f.	
lemarks:				Gas Sp. Gr.	TF.	F
			1. MY 81 2. A A A	Cu. Ft./Day		
			ARTICLE OF ANY LIPE	GOR	Cu. Ft	./Bbl.
				GFR	Cu. Ft	./Bbl.
				ים ד ס	hie Mart	Dron

dent. Dupinits - Jean alla 10 interperence

Lick I	arted: 12-	/m /				
Dute	5/~		er.	Pro	do time	
	i	Judicy		2-0	5-17	
12-17-5		1064	12-57	4728	61,550	
1-11-57		1069	1-5-7	9019	54,536	
2-11-57		1069	2-57	2890	11,809	
3-11-57	1065%	10694	3-57	2093		englisher Leanting of the second
4-8-57		1061%			75475	
5-6-57			4-57	#315	36 586	
2-1-57		10.694	5-57	3.19Z	93, 656	
	1.0.65	10.63	6-57	3/8/	34,638	
	The Total Committee of the Committee of	the state of the s	7-57	235	51,531	
8-13-5		1062/2	8-157	9244	96,15-1	
9-12-52		1061%	9-57	22/32	90 439	***
10-8-57	106/3	1060	10-57	14365		
	ern og en en eg en er en			Curing 535 John 511	26996	
11-8-57	1059 %	1059	// . 45- 3			
12-6-57	4.4		11-52		23328	and the second production of the second produc
•		1057	12-5	7 11949 rainey 660	28883	
1 3-58		ere en la casa	· · · · · · · · · · · · · · · · · · ·	74,590	656	in a second constitution of the second constitut
		1055	1-58	12,000		
2-3-5 8	10.56	105-4	(i) G	which 631	625	1
		· · · · · · · · · · · · · · · · · · ·		93,590	560,556	<u> </u>
difference	8 4 4	/0 =			to more than the second of the	** * * * * * * * * * * * * * * * * * *

***** 10 mg \$ 6 ME 10/10 37.901 70263 50 96 7 61229 Θ 0 0 2 28063 34920 12 · C · 6 1.07711 79 64 109.6. CRR 0 FRODUCI J.c. 4-E 87128 TON 253732 12898 200926 Cum 11 ⊕ ≥ रेष 105910 170881 140676 3 WElls 1376 WE11s 479605 624703 308724 168076 Comutation 10 (3) 107 . : :

R B 9