CASE 1838: Application of EL PASO GAS CO. for gas-gas dual of its Huerfano Unit Well No. 113 ' in Unit F.

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coase Mo. 838 Application, Transcript, Smill Exhibits, Etc.



BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO JANUARY 6, 1960

#### IN THE MATTER OF:

CASE 1838: Application of El Paso Natural Cas Company for a gas-gas dual completion, Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Huerfano Unit Well No. 111 (CD), located in Unit F, Section 20, Township 26 North, Range 9 West, San Juan County, New Mexico, in such a manner as to permit the production of gas from an undesignated Callup pool and the production of gas from an undesignated Dakota pool through parallel strings of tubing.

BEFORE:

Daniel S. Nutter, Examiner

TRANSCRIPT OF MEARING

MR. NUTTER: The hearing will come to order, please. The next case on the docket will be Case 1838.

MR. PAYNE: Case 1838. Application of El Paso

Natural das Company for a gas-gas dual completion.

MR. SETH: Mr. Examiner, I would like to enter my appearance in two cases, Cases 1838 and 1848, together with Mr. Garrett Whitworth.

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

(Witness sworn.)



DEARNLEY-MEIER REPORTING SERVICE,

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PAGE 2 JOHN MASON called as a witness, having been first duly sworn, testified as follows: DIRECT EXAMINATION PHONE CH 3-6691 BY: MR. WHITWORTH Please state your name, by whom and in what capacity Q DEARNLEY-MEIER REPORTING SERVICE, Inc. you are employed? My name is John Mason, I am employed by the El Paso A Natural das Company as provation engineer. Mave you previously testified before this Commission 0 as a proration engineer? A Yes, sir, I have. MR. WHITWORTH: We ask that the witness' qualifications be accepted. MR. NUTTER: They are. Please proceed. (By Mr. Whitworth) Are you familiar with El Paso Q Natural Cas Company's Huerfano Unit No. 111 and the application in this case? ALBUQUERQUE, NEW MEXICO Yes, sir. A What doel El Paso seek by this application? Q A By this application El Paso seeks an order to dual complete its Huerfano Unit No. 111 in such a manner as to produce the undesignated Gallup and undesignated Dakota formations through a parallel string of tubing. Do you have a plat showing the location of this well Q

and the offset operators?

Yes, sir, I do. A

MR. WHITWORTH: We ask that be marked as El Paso's

Exhibit No. 1.

(Thereupon El Paso's Exhibit No. 1 was marked for identifica tion.)

Now, by this plat will you explain where this well Q is located and identify the offset operator.

This well is located 1550 feet from the West boundary, A Section 20, Township 26 North, Range 9 West. This well is within the Huerfano unit, of which El Paso Natural gas is the operator. This shows that there is a well. Rock Island Oil and Refining Company has a lease in Section 16 to the northeast. Within that section there is a pictured Cliffs completion, but there is no sallup completion. That is part of the unit also.

Do you have any documentary evidence depicting the Q physical equipment in this well?

Yes, sir. I have a schematic diagram of the physical Δ equipment in this well.

Now, by this exhibit, would you explain how this well Q was completed?

This is Exhibit 2, which shows the equipment that was Α put into this well. The was completed in this manner: Ten and three quarter inch surfacing casing was set at 334 feet and cement circulated to the surface. Seven inch production string,

DEARNLEY-MEIER REPORTING SERVICE, Inc. ALBUQUERQUE, NEIV MEXICO

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PHONE CH 3-6691

PAGE 4

combination production string set at 6786. This well was twostage cemented; the first stage I don't believe the diagram shows it, but the first state, the top is at 4500 feet, and the second stage is at 1590. It shows the Gallup formation to have been perforated from, at various intervals, from 5603 to 5727. This is the upper Gallup, and fractured with oil and sand. The lower Callup perforated from 5799 to 5894, and fractured with oil and sand. Production from the Gallup formation is through two and three-eights inch tubing, which is landed at 5934. There is a Baker dual string anchor set at 5934. The Dakota formation has been perforated in this manner: The upper Dakota was perforated from 6455 to 6471. The middle Dakota, 6548 to 6578; the lower Dakota 6628 to 6723, and fractured with water and sand. Production from the Dakota formation is through two and three-eights inch tubing which is landed at 6730. This well has a Guiberson model "A@" production packer, which is a permanent type packer set at 5998.

Q This well is a gas-gas dual completed in an undesignated Gallup pool and undesignated Dakota pool, is that correct?

A That is correct.

PHONE CH 3-6691

DEARNLEY-MEIER REPORTING SERVICE, Inc.

ALBUQUERQUE, NEW MEXICO

Q What prompted El Paso to install \_ permanent type production packer, do you know?

A Well, this was just one of the conditions, and it has been a practice for El Paso to use a permanent type packer in dually completing a Gallup and Dakota well. The conditions there seem

PAGE 5

to warrant this type of packer.

Q Do you have any potential and shutin data from this well?

A Yes, sir, I do. The fallup formation was tested in the latter part of November, 1959 and has a shutin pressure of 1181, flowing pressure of 175 psi through a three quarter inch cheke, and produced a volume of 1923 MCF's per day with a calculated open flow of 2,198 MCF per day.

Q Do you have --

A I would like to complete that last question, plase, sir. I have some potential information on the Dakota formation. The Dakota formation was tested in October of 1959, had a shutin pressure of 1956 psi, and flowing pressure of 297 psi. It produced a volume of 3,410 MCF per day through a three-quarter inch choke and had a calculated AOF of 3703 MCF per day.

Q Do you have any well log data concerning this well?

A No, sir, I don't have the well logs, they were not available at the time we left El Paso, and I would like to ask permission from the Commission to submit those at a later date.

MR. NUTTER: That will be satisfactory.

Q (By Mr. Whitworth) To your knowledge is there a case pending before this Commission which would include the area this well is situated in as a designated gas pool, and would render formal hearing unnecessary, to make it possible that this well could be approved as a dual completion administratively?

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A Yes, Bir, there is a case that is set for the January 13th docket, nomenclature case, which would include this area in the Angels Peak Gallup and Angels Peak Dakota pool.

Q In your opinion, would the granting of this application for this dual completion prevent waste?

A Yes, sir.

Q And would it violate or prejudice correlative rights?A No, sir.

Q How were El Paso's Exhibits 1 and 2 prepared?

A They were prepared by our Farmington engineering

office at my request.

MR. WHITWORTH: We ask that these exhibits be accepted. MR. NUTTER: El Paso's Exhibits 1 and 2 will be entered in evidence in this case.

Q (By Mr. Whitworth) Is there anything else you would like to add to your testimony, Mr. Mason?

A Only that this well is completed in such a manner that any test that the Commission might require can be conducted.

MR. WHITWORTH: That's all.

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

Mason?

MR. PAYNE: Yes, sir.

MR. NUTTER: Mr. Payne.

CROSS EXAMINATION

BY MR. PAYNE:

DEARNLEY-MEIER REPORTING SERVICE,

CH 3-6691

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Q Mr. Mason, I take it from your testimony that this well is adjacent to the Angels Peak Gallup pool?

A Well, it is several sections removed. It is more than a mile away. Just offhand -- well, I'm not sure of what the limits of the Angels Peak pool are, the southern boundary, but it is several miles removed from that, several miles south of it.

Q There is a case on the nomenclature to include this as an Angels Feak Gallup.

A Yes, sir, I think so.

Q Mr. Mason, what leads you to believe that this will be a gas well in the Gallup rather than an oil well?

A Well, we can't say definitely. During its potential test there was a show of oil, a spray of oil, but when the well was planned, they expected to encounter gas in this portion.

Q Generally speaking, when you find a gas well in the Gallup, the oil pool is not far behind, is --

A Well, I think that has been the experience thus far.

Q That is the way the Angels Peak Oil pool was discovered, is it not?

A Yes, sir, I believe so.

Q So you are aware if this dual completion is granted, that the Gallup zone might very well become an oil well and in all probability would be a penalized well?

A Yes, sir, we are.

MR. PAYNE: Thank you That's all.

DEARNLEY-MEIER REPORTING SERVICE, Inc.

ALBUQUERQUE, NEW MEXICO

MR. NUTTER: Any further questions of Mr. Mason? He may be excused.

(Witness excused.)

MR. NUTTER: Does anyone have anything further they wish to offer in this case? Take the case under advisement.

## STATE OF NEW MEXICO

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 <u>13</u> day of <u>Annany</u> 1960, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

My Commission Expires: October 5, 1960

I do hereby certify that the foregoing is 

NOTARY PUBLIC

New Mexico Oil Conservation Commission



DEARNLEY-MEIER REPORTING SERVICE, Inc.

ALBUQUERQUE, NEW MEXICO

El Paso Natural Gas Company

El Paso, Texas January 25, 1960

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

Dear Dan:

Enclosed are two Induction-Electrical Logs on the Huerfano No. 111 which were not available at the time hearing was held on El Paso's Application for Dual Completion, designated as Case No. 1838. The top and base of each producing formation and the perforated intervals are shown in red on the five-inch scale of each log.

Yours very truly,

ason

/ John B. Mason Proration Department

JBM:jmh Enclosures

NO. 1.60

#### DOCKET: EXAMINER SEARING JANUARY 6. 1960

#### OIL CONSERVATION COMMISSION - 9 a.m., Mabry Hall, State Capitol, Santa Fe, New Mexico

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

CASE 1835: Application of Continental Oil Company for two non-standard gas proration units. Applicant, in the above-styled cause, seeks an order establishing two non-standard gas proration units in the Eumont Gas Pool, ore consisting of the N/2 of Section 3, the other consisting of the S/2 of said Section 3, Township 20 South, Range 36 East, Lea County, New Mexico. Applicant proposes to dedicate the units respectively to its Reed A-3 Well No. 2. located 1980 feet from the North line and 660 feet from the East line of said Section 3 and to its Reed A-3 Well No. 3, located 1980 feet from the South line and 660 feet from the East line of said Section 3. Applicant further proposes the cancellation of an existing Eumont gas provation unit comprising the E/2 of said Section 3 and presently dedicated to the said Reed A-3 Well No. 3.

CASE 1836: Application of Continental Oil Company for approval of an automatic custody transfer system. Applicant, in the above-styled cause, seeks an order authorizing it to install an automatic custody transfer system to handle the Arrowhead Pool production from all wells on its State J-2 lease consisting of the N/2 and the SE/4 of Section 2, Township 22 South, Range 36 East, Lea County, New Mexico.

Application of Continental Oil Company for an oil-oil dual completion. CASE 1837: Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Baish "A" Well No. 27, located in the NE/4 SE/4 of Section 21, Township 17 South, Range 32 East, Lea County, New Mexibo, in such a manner as to permit the production of oil from an undesignated Abo pool and the production of oil from an undesignated Wolfcamp rool through parallel strings of tubing.

CASE 1838: 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 Huerfano Unit Well No. 111 (GD), located in Unit F, Section 20, Township 26 North, Range 9 West, San Juan County, New Mexico, in such a manner as to permit the production of gas from an undesignated Gallup pool and the production of gas from an undesignated Dakota pool through parallel strings of tubing-

CASE 1839:

Application of Franklin, Aston & Fair, Inc., for permission to commingle the production from three separate leases. Applicant, in the above-styled cause, seeks permission to commingle the Empire-Abo Pool production from three separate State leases, one in Section 6, Township 18 South, Range 28 East, and the other two in Section 31, Township 17 South, Range 28 East, Eddy County, New Mekico.

CASE 1840; Application of Pas American Petroleum Corporation for a non-standard gas unit. Applicant, in the above-styled cause, seeks an order establishing a 264-above non-standaud gas unit in the Blance-Pictured Cliffs Pool consisting of the M/2 of Section 6, Township 29 No. th, Range 9 West, San Juan County, New Mexico. to be dedicated to the Houck Gas Unit Well No. 1, located 1650 feet from the North and East lines of said Section for

-2ocket No. -60

CASE 1841:

Application of Sinclair Oil & Gas Company for the creation of a new pool in the Potash-Oil Area and for the promulgation of special rules and regulations pertaining thereto. Applicant, in the above-styled cause, seeks an order creating a new pool for Yates production in the Potash-Oil Area as defined by Order R-111-A. said pool to comprise the SE/4 NW/4 of Section 16, Township 20 South, Range 33 East, Lea County, New Mexico, and such other acreage as may reasonably be proven productive from the same common source of supply. Applicant further seeks the promulgation of special rules and regulations for said pool as follows:

#### A. Cable Tool Casing Program.

Same as Order R-1078 for Teas Pool.

B. Rotary Tool Casing Program.

Surface casing set at 600 feet and cement circulated No salt protection string. Production casing to be set through pay from 3146 feet to 3232 feet (approximately) with cement circulated to at least 50 feet into surface casing.

CASE 1842: Application of Skelly Oil Company for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks permission to commingle the production from the Langlie-Mattix Pool and the Drinkard Pool from all wells on its Baker "A" lease comprising the NW/4 of Section 26, Township 22 South, Range 37 East, Lea County, New Mexico.

CASE 1843: Application of Roy H. Smith Drilling Company for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks permission to commingle the production from the Maljamar-Yates Pool and the Pearsall Pool from all wells on its Walker "A" lease, comprising the S/2 NE/4 of Section 5, Township 18 South, Range 32 East, Lea County, New Mexico.

CASE 1844: Application of Texaco Inc. for permission to commingle the production from iwo separate pools and for permission to install an automatic custody transfer system. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from the Justis-Ellenburger and Justis-McKee Pools from all wells on its C. E. Penny lease consisting of the NW/4 of Section 19, Township 25 South, Range 38 East, Lea County, New Mexico, and for permission to install an automatic custody transfer system to handle said commingled production.

CASE 1845: Application of Western Natural Gas Company for an oil-gas dual completion and for an unorthodox gas well location. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Bonnie Schlosser Federal Well No. 1, located 790 feet from the North line and 1980 feet from the West line of Section 10, Township 27 North, Range 11 West, San Juan County, New Mexico, in such a manner as to permit the production of oil from an undesignated Gallup pool and the production of gas from an undesignated Dakota pool through parallel strings of tubing. Applicant further seeks an unorthodox Dakota gas well location for the said Bonnie Schlosser Federal Well No. 1. Docket No. 1-60

CASE 1846:

Application of Rice Engineering and Operating, Inc. for an order authorizing a salt water disposal well. Applicant, in the above-styled cause, seeks an order authorizing it to recomplete the Lowe Oberholtzer Well No. 2 as a salt water disposal well. Said well is located 1980 feet from the North and East lines of Section 8, Township 12 South, Range 38 East, Gladiola Pool, Lea County, New Merrico. Applicant proposes to inject the produced salt water in the Devonian formation in the interval from 12,223 feet to 12,500 feet.

CASE 1847: Application of Rice Engineering and Operating, Inc. for an order authorizing a salt water disposal well. Applicant, in the above-styled cause, seeks an order authorizing the disposal of produced salt water through its Hobbs SWD Well No. F-29 to be located 1880 feet from the North line and 1742 feet from the West line of Section 29, Township 18 South, Range 38 East, Hobbs, Pool, Lea County, New Mexico. Applicant proposes to inject the produced salt water into the San Andres formation in the interval from 4700 feet to 5000 feet.

#### CASE 1848:

CASE 1849:

Application of El Paso Natural Gas Company for an exception to Paragraph 3 of Grder R-1065. Applicant, in the above-styled cause, seeks an extension of time to make up the accrued underproduction of the Jones 4-A Well ( a pressure build-up test well), located in Unit B, Section 13, Township 28 North, Range 8 West, Blanco-Mesaverde Pool, San Juan County, New Mexico.

Application of Western Natural Gas Company for an exception to the overproduction shut-in provisions of Order R-520, as amended by Order No. R-967, for 3 wells in the Jalmat Gas Pool. Applicant, in the above-styled cause, seeks an order permitting the following-described gas wells in the Jalmat Gas Pool, Lea County, New Mexico, to compensate for their overproduced status without being completely shut-in in order to prevent possible waste.

Wells Federal No. 1 Well, SW/4 NE/4 of Section 6, T-26-S, R-37-E.

Guthrie No. 1 Well, SW/4 SE/4 of Section 34, T-23-S, R-36-E.

State McDonald A-15 Well No. 1, NW/4 SW/4 of Section 15, T-22-S, R-36-E.

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SCHEMATIC DIAGRAM OF DUAL COMPLETION

NO. 1-60

#### DOCKET: ENAMINER HEARING JANUARY 6, 1960

#### OIL CONSERVATION COMMISSION - 9 a.m., Mabry Hall, State Capitol, Santa Fe, New Mexico

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CASE 1836: Kellahun Queen



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Docket No. 1-60

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Application of Rice Engineering and Operating, Inc. for an order authorizing a salt water disposal well. Applicant, in the above-styled cause, seeks an order authorizing the disposal of produced salt water through its Hobbs SWD Well No. F-29 to be located 1880 feet from the North line and 1742 feet from the West line of Section 29, Township 18 South, Range 38 East, hobbs, Pool, Lea County, New Mexico. Applicant proposes to inject the produced salt water into the San Andres formation in the interval from 4700 feet to 5000 feet.

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Application of El Paso Natural Gas Company for an exception to Paragraph 3 of Order R-1065. Applicant, in the above-styled cause, seeks an extension Oliver Seth of time to make up the accrued underproduction of the Jones 4-A Well ( a pressure build-up test well), located in Unit B, Section 13, Township 28 North, Range 8 West, Blanco-Mesaverde Pool, San Juan County, New Mexico.

CASE 1849:

Application of Western Natural Gas Company for an exception to the overproduction shut-in provisions of Order R-520, as amended by Order No. R-967, for 3 wells in the Jalmat Gas Pool. Applicant, in the above-styled cause, seeks an order permitting the following-described gas wells in the Jalmat Gas Pool, Lea County, New Mexico, to compensate for their overproduced status without being completely shut-in in order to prevent possible waste.

Wells Federal No. 1 Well, SW/4 NE/4 of Section 6, T-26-S, R-37-E.

Guthrie No. 1 Well, SW/4 SE/4 of Section 34, T-23-S, R-36-E.

State McDonald A-15 Well No. 1, NW/4 SW/4 of Section 15, T-22-S, R-36-E.

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

January 19, 1960

Mr. Oliver Seth 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-1583 in Case No. 1838 issued by the Oil Conservation Commission on January 18, 1960.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

Enclosures: (2) ir/

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#### DEFORE THE OIL COMBERVATION COMMISSION OF THE STATE OF HEW MEXICO

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

> CASE No. 1838 Order No. R-1583

APPLICATION OF EL PASO NATURAL GAS COMPANY FOR A DUAL COMPLETION IN AN UNDESIGNATED GALLUP POOL AND AN UNDESIGNATED DARDTA POOL, SAN JUAN COUNTY, NEW MERICO

#### ORDER OF THE COMMISSION

#### BY THE COMPLESION:

This cause came on for hearing at 9 o'clock a.m. on January 6, 1960, at Santa Fe, New Mexico, before Daniel S. Matter, 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 18th day of January, 1960, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Mutter, 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 is the owner and operator of the Huerfano Unit Well No. 111 (G.D.) located in Unit F, Section 20, Township 26 North, Range 9 West, NMFM, San Juan County, New Mexico.

(3) That the applicant proposes to dually complete the above-described Huerfano Unit Well No. 111 (G.D.) in such a manner as to permit the production of gas from an undesignated Gallup pool and the production of gas from an undesignated Dakota pool through parallel strings of 2-3/8 inch tubing.

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

(5) That approval of the subject application will neither cause waste nor impair correlative rights.

-2-Case No. 1838 Order No. R-1583

#### IT IS THEREFORE ORDERED:

That the applicant be and the same is haraby authorized to dually complete the Maerfano Unit Well No. 111 (6.D.) located in Unit F. Section 20. Township 26 North, Range 9 West, MMHM, Sam Juan County, New Memico, in such a memory as to permit the production of gas from an undesignated Gallup pool and the production of gas from an undesignated Dakota pool through perallel strings of 2-3/8 inch tubing.

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

<u>PROVIDED FURTHER</u>, That applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Deliverability Test Period for the Dakota producing Interval.

#### IT IS FURTHER ORDERED:

That jurisdiction of this cause is bereby 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-sone 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

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JOHN BURROUGHS, Chairman

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MURRAY E. MORGAN, Member

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

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OIL CONSERVATION COMMISSION 1000 Rio Brazos Rd. Aztec, New Mexico

11-30-59 DATE RE: Proposed NSP\_\_\_ Proposed NSL Proposed NFO Proposed DC

860

OIL CONSERVATION COMMISSION BOX 871 SANTA FE, NEW MEXICO

#### Gentlemen:

I have examined the application dated\_\_\_\_\_ 11-23-59 for the EPN6thuestanol. # 111 F-20-26N-9W Lease and Well No. S-T-R Operator and my recommendations are as follows: is a Gallup - Pakota Oil over Gas Dual chnically according to the order would Technically according a hearing Yeddill

Yours very truly, Concern Configuration

SANTA	FE.	NEW	MEXICO	
VANTA	,		MENICO	

# NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO ACOMPLETION SX hrg - Jan

Field Name	e	• <sup>1</sup>		County	Date	
Wild	cat Gallup	& Dakota		2 / San Juan	November 23, 195	59
Operator		الاقتدار بالتوا	Lease	-	Well No.	-
El P	aso Natural	Gas Company	Huerfa	no Unit	111 (GD)	
	Unit	Section		Township	Range	
of Well	F		20	26N	<b>9</b> W	

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 \_X\_\_\_

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

. The following facts are submitted:	Upper Zone	Lower Zone
o. Name of reservoir	Gallup	Dakota
b. Top and Bottom of Pay Section	5603-5727 (Upper Gallup)	6455-6471 &Upper Dakota) 6548-6578 (Middle Dakota)
(Perforations)	5799-5894 (Lower Gallup)	6628-6723 (Lower Dakota)
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 of NO)

Yes o. 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.



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

CERTIFICATE: I, the undersigned, state that I am the Division Petroleum Engr. of the El Pasc Natural Gas Co. \_ (company), and that I am authorized by said company to make this report; and that this report was prepared er my superv sion and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature

ould waivers from all offset operators not accompany an application for administrative approval, the New Merico 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 not request for hearing is received by the Santa co office, the application will then be processed. NOTE: If the proposed dual completion will result in an unorthodox well location and/or a nor-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be tited sized sneously with this application.

STATE OF NEW MEXICO

I, A. T. Fry, being first duly sworn upon my oath depose and say as follows:

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I am an employee of Guiberson Corporation, and that on September 4, 1959, I was called to the location of the El Paso Natural Gas Company Huerfano Unit No. 111 (GD) Well located in the SENW/4 of Section 20, Township 26 North, Range 9 West, N.M.P.M., for advisory service in connection with installation of a production packer. In my presence, a Guiberson Model "AG" Production Packer was set in this well at 5998 feet in accordance with the usual practices and customs of the industry.

Q. J. F. M.

Subscribed and sworn to before me this 24th day of November,

1959.

(102) (328

Notary Public in and for San Juan County, New Mexico

My commission expires February 24, 1960.



SCHEMATIC DIAGRAM OF DUAL COMPLETION El Paso Natural Gas Co. Huerfano Unit No. 111 (OD) NW/4 Section 20, T-26-N, R-9-W

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		CHRISTMAS NO. X- 114	TREE	ASSEMBLY	OIL CEN	PROPERTY OF NTER TOOL HOUSTON, TEXAS	CO., INC.
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		PART NO. MATERIAL SPEC.	SO NATURAL	PATTERN NO.	DATE 2-24-55 DAH. EYGOC GRO. BY	Øitz	FILE NO.

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### OPEN FLOW TEST DATA

Operator	and the second s		••••••••••••••••••••••••••••••••••••••	
Locatio	Natural Gas C		Hierfano No. 11	1 (G) State
1550N, 1	550W; 20-26-9		San Juan	Nev Mexico
Gallup			Undesignated	
Casing: Diameter	-	Set At: Feet	j Tubing: Diameter	Set At: Feet
Pay Zone: From	7 +	6 <b>776</b> To	2 Total Depth;	
Stinulation Method	5603	5894	6788 c/o 6770	Shut In: 10/7/59
Stinulative Method Sand Oil			R Ellow Through Classing I	FFlam Three gli Tobleg X
			<u> </u>	
Choke Sizo, Inches		Grave , unstant C	· · · · · · · · · · · · · · · · · · ·	
	.75	12.365	Shut-Ir Pressure Tabing	a a an
Shut-Ja Pressure, Ca	1169 (C)	1181 26	Shut-in Pressure Tabing 807 (G)	PSIG 12 PSIA QQQ
Flawing Pressure: P	PSIG	- 12 - P\$IA	897 (G) Working Pressure: Pw	PSIG 12 PSIA
	16 <u>3</u>	175	465 Fpv (Fron Tables)	477
			1.026	
Final CHOKE VOLUME -		x F. x F. x F. x F. x 175 x .9971 x .868	87 x 1.026	1923MCF D
	a 12.365		Note: Unloaded he	1923 MCF D avy stream of oil for then heavy fog for remai
CHOKE VOLUME -	Q 12.365	<b>x 175 x .9971 x .868</b> $\frac{1}{P_{n}}$	Note: Unloaded her 15 minutes	avy stream of oil for then heavy fog for remai
CHOKE VOLUME OPEN FLOW Asf Asf	$ \begin{array}{c}     12.365 \\     \hline     Q \\     P_c \\     \hline     1 \\     116 \\     116 \\     12   \end{array} $	x 175 x .9971 x .868 $\frac{P_{1}}{P_{2}}$ $n$ $n$ $1.19^{4}$ $1.98$ MCF D	Note: Unloaded her 15 minutes test.	avy stream of oil for then heavy fog for remai
CHOKE VOLUME OPEN FLOW Asf Asf	$ \begin{array}{c}     12.365 \\     \hline     Q \\     P_c \\     \hline     1 \\     116 \\     116 \\     12   \end{array} $	$ \begin{array}{c} x \ 175 \ x \ .9971 \ x \ .868 \\ \hline \begin{array}{c} P_{n} \\ \hline \end{array} \\ 1 \ .19^{4} \\ \hline \end{array} \\ \hline \end{array} \\ \hline $	Note: Unloaded her 15 minutes test.	avy stream of oil for then heavy fog for remai

المحدية العقار فربوت

AND ALL FLOWS TRANSPORT



