for the creation of a new pool and for special pool rules, Lea County.

JSE MO. 3410

PP/iCAtion, YANSCY: PTS, MA// Exh. bits ETC.

### BEFORE THE OIL COMSERVATION COMMISSION OF THE STATE OF MEN MEXICO

IN THE MATTER OF THE MEARING CALLED BY THE OIL COMBERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF COMSIDERING:

> CASE No. 3410 Order No. R-3084 NOMENCLATURE

APPLICATION OF PENNEOIL COMPANY FOR THE CREATION OF A NEW POOL AND FOR SPECIAL POOL RULES, LEA COUNTY, MEN NEXICO.

### ORDER OF THE COMPLISSION

### BY THE COMUSSION.

This cause came on for hearing at 9 a.m. on June S, 1966, at Santa Fe, New Mexico, before Examiner Elvis A. Utg.

MOW, on this 30th day of June, 1966, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

### FIMDS:

- (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, Pennzoil Company, seeks the creation of a new oil pool for Morrow production in Lea County, New Mexico, including a provision for 80-acre spacing units and a limiting gas-oil ratio of 12,000 to 1.
- (3) That the Pennzoil Company Bridges-State Well No. 1, located in Unit A of Section 11, Township 17 South, Range 34 East, NMFM, Lea County, New Mexico, has discovered a separate common source of supply which should be designated the North Vacuum-Morrow Pool; that the vertical limits of said pool should be the Morrow zone of the Fennsylvanian formation in the interval from 11,745 feet to 12,152 feet on the log of said

-2-CASE No. 3410 Order No. R-3084

Pennzoil Company Bridges-State Well No. 1; and that the horizontal limits of said pool should be the N/2 NE/4 of Section 11, Township 17 South, Range 34 East, NNPM, Lea County, New Mexico.

- (4) That the applicant has established that one well in the Morth Vacuum-Morrow Pool can efficiently and economically drain and develop 80 acres.
- (5) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, special rules and regulations providing for EO-acre spacing units should be promulgated for the North Vacuum-Norrow Pool.
- (6) That the special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.
- (7) That the special rules and regulations should provide for a limiting gas-oil ratio of 12,000 to 1 in order to allow each operator in the pool the opportunity to use his just and equitable share of the reservoir energy.
- (8) That the top of the perforations in the Morrow zone of the Pennsylvanian formation in the Pennsoil Company Bridges-State Well No. 1 is at 11,960 feet; that the special rules and regulations should therefore provide for an 80-acre proportional factor of 6,67 for alienable purposes.
- (9) That in order to prevent undue dissipation of the reservoir energy and waste of oil and gas, the special rules and regulations should prohibit the flaring or venting of gas within a reasonable time after the issuance of this order.

### IT IS THEREFORE ORDERED:

(1) That a new pool in Lea County, New Mexico, classified as an oil pool for Morrow production, is hereby created and designated the North Vacuum-Morrow Pool, with vertical limits comprising the Morrow zone of the Pennsylvanian formation in the interval from 11,745 feet to 12,152 feet on the log of the

-3-CASE No. 3410 Order No. R-3084

Pennzoil Company Bridges-State Well No. 1, located in Unit A of Section 11, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, and horizontal limits comprising the N/2 NE/4 of Section 11, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico.

(2) That Special Rules and Regulations for the North Vacuum-Morrow Pool are hereby promulgated as follows:

## SPECIAL RULES AND REGULATIONS FOR THE NORTH VACUUM-MORROW POOL

- MULE 1. Each well completed or recompleted in the North Vacuum-Morrow Pool or in the Morrow zone of the Pennsylvanian formation within one mile thereof, and not nearer to or within the limits of another designated Morrow oil pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.
- MULE 2. Each well shall be located on a standard unit containing 80 acres, more or less, consisting of the M/2, S/2, B/2, or W/2 of a governmental quarter section; provided, however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the unit.
- RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit comprising a governmental quarter-quarter section or lot or the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Land Surveys. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all effect operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the Secretary-Director has received the application.
- RULE 4. Each well shall be located within 150 feet of the center of either quarter-quarter section in the 80-acre unit.

-4-CASB No. 3410 Order No. R-3084

- RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all operators offsetting the proposed location or if no objection to the unorthodox location has been entered within 20 days after the Secretary-Director has received the application.
- RULE 6. A standard proration unit (79 through 81 acres) shall be assigned an 80-acre proportional factor of 6.67 for allowable purposes, and in the event there is more than one well on an 80-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 80 acres.

- RULE 7. The limiting gas-oil ratio shall be 12,000 cubic feet of gas for each barrel of oil produced.
- RULE 8. No gas shall be flared or vented on or after July 15, 1966; provided, however, that any well completed in the subject pool after July 15, 1966, shall be given 30 days in which to make beneficial use of the produced casinghead gas.
- RULE 9. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 8 without notice and hearing when an application has been filed setting forth the facts and circumstances justifying the exception and he determines such action is necessary to prevent waste or protect correlative rights.

### IT IS FURTHER ORDERED:

(1) That the locations of all walls presently drilling to or completed in the North Vacuum-Morrow tool or in the Morrow some of the Commeylvanian tormation within one till thereof

-5-CASE No. 3410 Order No. R-3094

are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before July 15, 1966.

- (2) That each well presently drilling to or completed in the North Vacuum-Morrow Pool or in the Morrow zone of the Pennsylvanian formation within one mile thereof shall receive a 40-acre allowable until a Form C-102 dedicating 80 acres to the well has been filed with the Commission.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO

OIL CONSERVATION COMMISSION

ACK M. CAMPBELL. Chairman

GUYTON B. HAYS, Member

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

### RHODES AND McCALLISTER ATTORNEYS AT LAW

JERRY P. RHODES ORVILLE C. McCALLISTER, JR.

619 SIMMS BUILDING ALBUQUERQUE, NEW MEXICO 87101 TELEPHONE 243-9746

May 13, 1966

Elia 34/0

MAIN OFFICE 000

'65 MAY 16 AH 8 26

Oil Conservation Commission Box 2088 Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.

Secretary Director

### Gentlemen:

I am enclosing an original and two copies of an Application on behalf of Pennzoil Company. Would you please docket this Application for your next scheduled examiner hearing. As this case involves a state lease, I am forwarding a copy of the Application to the State Land Office. I also am forwarding a copy of the Application to your Hobbs district

Very truly yours,

Rhodes, McCallister & Durrett

By J. M. Durrett, Jr.

JMD;ab encls.

cc: State Land Office

Oil & Gas Division

Attention: Mr. Ted Bilberry

Box 1148

Santa Fe, New Mexico

Oil Conservation Commission Attention: Joe D. Ramey, Supervisor DOCKET MALLED

Date 5-25-66

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

Application of

PENNZOIL COMPANY

for Creation of a New Pool and Promulgation of Special Pool Rules Case No. 34/10

APPLICATION

MAIN OFFICE UTC \*66 MAY IS AM 8 26

COUNT ONE

COMES NOW the applicant, Pennzoil Company, by and through its attorneys, Rhodes, McCallister & Durrett, and respectfully states:

I.

The applicant is the owner and operator of the Bridges-State Well No. 1 located in Unit A, 660 feet from the north line and 660 feet from the east line of Section 11, Township 17 South, Range 34 East, NMI-M, Lea County, New Mexico.

Ц.

The subject well was drilled to the Devonian Formation but was non-productive in said formation and was subsequently plugged back and completed in the Atoka Zone of the Morrow Formation with the top of the perforations in the Morrow Formation at approximately 11,960 feet.

III.

The subject well has discovered a new separate common source of supply which should be designated an Atoka Oil Pool.

RHODES AND MCCALLISTER
ATTORNEYS AT LAW
619 SIMMS BUILDING ALBUQUERQUE.
NEW MEXICO 87101

IV.

The subject well is presently the only well completed in the subject pool.

v.

One well in the subject pool can efficiently and economically drain and develop 80 acres.

VI.

The subject pool can be efficiently and economically drained and developed with a limiting gas-oil ratio of 12,000 to one.

VII.

Well locations no nearer than 330 feet to a quarter quarter section line will adequately protect correlative rights in the subject pool.

WHEREFORE, the applicant requests the Commission to enter its order creating a new oil pool for Atoka production and promulgating special rules and regulations governing said pool establishing therein 80-acre spacing and proration units and a limiting gas-oil ratio of 12,000 to one.

### COUNT TWO

In the alternative, applicant states:

I.

The subject well should be classified as a gas well and a new Morrow gas pool should be created.

WHEREFORE, the applicant requests the Commission to enter its order classifying the subject well as a gas well and creating a new Morrow gas pool.

Rhodes, McCallister & Durrett

J. M. Durrett, Jr.

RHODES AND MCCALLISTER ATTORNEYS AT LAW 619 SIMMS BUILDING ALBUQUERQUE. NEW MEXICC 37101 GOVERNOR JACK M. CAMPBELL CHAIRMAN

## State of New Mexico

## Bil Conservation Commission

LAND COMMISSIONER GUYTON B. HAYS MEMBER



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

June 30, 1966

Mr. James M. Durrett, Jr. Rhodes, McCallister & Durrett Attorneys at Law 619 Simms Building Albuquerque, New Mexico

Re: Case No. 3410
Order No. R-3084
Applicant:

PENNZOIL COMPANY

Dear Sir:

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

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Carbon copy of order also sent to:

Hobbs OCC x
Artesia OCC
Aztec OCC

Other Mr. John Hoover

CLASS OF SERVICE

This is a fast message unless its defenced character is indicated by the

## WESTERN UNION

SYMBOLS
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NL=Night Letter

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LT=Internations
Letter Telegraph

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ATTN MR DANTEL S NUTTER; RE CASE #3-10 PENNZOTE NEW POOL AND SPECIAL RULES LEA COUNTY NEW MEXTCO. MOBIL OIL CORPORATION IS THE OWNER OF SUBSTANTIAL ACREAGE IN THE AREA OF PENNZOTE OIL COMPANY'S BRIDGES-STATE WELL #1 IN UNIT A SECTION 11 TOWNSHIP 17 SOUTH RANGE 34 EAST LEA COUNTY, NEW MEXICO. IT IS MOBIL'S POSITION THAT CONDITIONS IN THE FIELD ARE NOW PREMATURE FOR THE

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

CLASS OF SERVICE
This, is a fast message unless its deferred char-

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## WESTERN UNION

SYMBOLS

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TELEGRAM

1201 (4-00)

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ADOPTION OF OIL FIELD RULES. BUT, IF THE COMMISSION IS OF A MIND TO ADOPT SUCH RULES MOBIL RECOMMENDS OIL UNITS NO SMALLER THAN 160 ACRES. MOBIL AT THIS TIME FAVORS CLASSIFICATION OF PRODUCTION FROM THIS POOL AS GAS=

TRA B STITT JR DIVISION OPERATIONS ENGINEER MOBIL
OIL CORPORATION ===

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

Docket No. 14-66

### DOCKET: EXAMINER HEARING - WEDNESDAY - JUNE 8, 1966

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

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

- CASE 3410: Application of Pennzoil Company for the creation of a new pool and for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Morrow production for its Bridges-State Well No. 1 in Unit A of Section 11, Township 17 South, Range 34 East, Lea County, New Mexico, and for the promulgation of special pool rules therefor including a provision for 80-acre spacing and a limiting gas-oil ratio of 12,000 to one. In the alternative, applicant requests that the subject well be classified as a gas well and a new Morrow gas pool be created.
- CASE 3411: Application of SEC Operating for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Yates formation through one well in Unit A of Section 14, Township 20 South, Range 33 East, Teas Pool, Lea County, New Mexico. Applicant further seeks an administrative procedure whereby said project could be expanded to include additional lands and injection wells in Sections 11, 13, 14 and 15, Township 20 South, Range 33 East, under cooperative offset operating agreements.
- Application of SEC Operating for an exception to Commission Order No. R-111-A, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the potash-oil area casing and cementing rules as set forth in Commission Order No. R-111-A. Applicant proposes to drill and complete a well in Unit D of Section 14, Township 20 South, Range 33 East, Teas Pool, Lea County, New Mexico, with surface casing set at approximately 950 feet, cement circulated, and production casing set at approximately 3400 feet and cemented to approximately 2500 feet above the casing point. The well would be plugged and abandoned in accordance with the provisions of Order No. R-111-A.

### CASE 3261 (Reopened):

In the matter of Case No. 3261 being reopened at the request of Amerada Petroleum Corporation to consider the amendemnt of the special rules for the Jenkins-Cisco Pool, Lea County, New Mexico, to provide for 160-acre oil proration units. Applicant also seeks the extension of said pool to include certain lands in Township 9 South, Ranges 34 and 35 East. The present temporary special rules promulgated by Order No. R-2931 in Case 3261 provide for 80-acre proration units, and are subject to reconsideration in July, 1966.

- 2 - JUNE 8, 1966, EXAMINER HEARING

CASE 3413: Application of Amerada Petroleum Corporation for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Permo-Pennsylvanian zone through three injection wells located in Section 3, Township 15 South, Range 33 East, Saunders Permo-Pennsylvanian Pool, Lea County, New Mexico.

CASE 3414: Application of Phillips Petroleum Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the lower San Andres formation, below the oil-water contact, in the following wells, Vacuum Field, Lea County, New Mexico:

TOWNSHIP 17 SOUTH, RANGE 34 EAST Phillips Hale No. 11, Unit K Section 35

TOWNSHIP 17 SOUTH, RANGE 35 EAST
Phillips Santa Fe No. 97, Unit N Section 33
Phillips Santa Fe No. 86, Unit C Section 26
Phillips Santa Fe No. 58, Unit G Section 35

Applicant further seeks establishment of an administrative procedure whereby additional wells could be placed on salt water disposal below the oil-water contact in the San Andres formation of the Vacuum Field.

CASE 3415: Application of Sun Oil Company for a non-standard gas proration unit, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 790-acre non-standard gas proration unit comprising all of Section 5 and 150 acres in the eastern portion of Section 6, Township 22 South, Range 23 East, Indian Basin-Upper Pennsylvanian Gas Pool, Eddy County, New Mexico. Said unit would be dedicated to applicant's Bogle Flats Unit Well No. 8 located in Unit G of said Section 5. Although applicant has drilled a non-commercial well in the NE/4 of said Section 6, it contends that there are approximately 150 acres in said Section 6 which are underlain by the Indian Basin-Upper Pennsylvanian Gas Pool.

CASE 3416: Application of Signal Oil & Gas Company for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its State "AP" Well No. 1 located in Unit I of Section 17, Township 10 South, Range 34 East, Simanola-Pennsylvanian Pool, Lea County, New Mexico, in such a manner as to produce oil from the Pennsylvanian formation through perforations from 9962 feet to 9966 feet and to dispose of produced salt water into the San Andres and Glorieta formations through the annulus between the 8 5/8 inch and the 5 1/2 inch casing in the interval from 4100 feet to 9260 feet.

CASE 2844 (Reopened):

In the matter of Case No. 2844 being reopened pursuant to the provisions of Order No. R-2627, which order established temporary 320-acre gas proration units for the Teas-Pennsylvanian Gas Pool, Lea County, New Mexico, for a period of one year from the date of first pipeline connection. The Commission will consider indefinite extension of Order R-2627 in the absence of evidence to the contrary.

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

STEURISTING IN DEPOSITIONS, REPAIREDS, STREETHINS, EATER LESIMON, DAIL COT, CONTENTS
1120 SIAMS BIDG. • P. O. BOX 1092 • PHONE 243-6691 • AIBUQUERQUE, NEW MEXICO

	BEFORE THE
NEW	MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico
	June 8, 1966

### EXAMINER HEARING

IN THE MATTER OF:

Application of Pennzoil Company for the creation of a new pool and for special pool rules, Lea County, New Mexico.

Case No. 3410

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING



Page	1	

### NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE , NEW MEXICO

### REGISTER

JUNE 8, 1966 HEARING DATE NAME: REPRESENTING: LOCATION: pason Kelinhi Kellahin & tex John Dwending amenda Ped Corp House JM Agentin of Khake The Hashiter Kanned Cilling Termeta R Hudollestar Pennzoil midland Kenneth R Hudolleston Pennecil Hel CPotes Cimilapita, Suc. anteria 17mm John H. Hoarts Gull Cil Corp. Roswell 11.111. Midwal S. Morring Seth, Knotyming, Federica Hanker Santa Fe 2 21 Mars America Petrolaum Corps Father, 19.22. Milleaine PM Legrand D.W. Stewart, america Hulis. NM. RCHoche America Palacter Corp Trilsa, Olan Hammen Inschool on Tillian, Chin Down G. Garage Muller Thelips It Come, Time W. T. Western Sugar Co. See Ca. Mr. May

MR. UTZ: The next case is 3410.

MR. HATCH: Application of Pennzoil Company for the creation of a new pool and for special pool rules, Lea County, New Mexico.

MR. DURRETT: If the Examiner please, J. M.

Durrett, Junior of the firm of Rhodes, McAllister and Durrett,

appearing for the applicant. I will have one witness, Mr.

Kenneth R. Huddleston.

MR. UTZ: Will you stand and be sworn, please?

(Witness sworn.)

MR. UTZ: Are there other appearances in this case?

MR. HOOVER: John Hoover with Gulf. We have a

statement we would like to make.

MR. UTZ: You may proceed.

### KENNETH R. HUDDLESTON

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

### DIRECT EXAMINATION

### BY MR. DURRETT:

- Q Will you please state your name and position for the record?
- A I am Kenneth R. Huddleston, engineer for Pennzoil in Midland, Texas.
  - Q And you are a petroleum engineer, Mr. Huddleston?



- A That's right.
- Q Have you testified before this Commission as an expert witness before?
  - A Yes.

MR. DURRETT: Are the witness's qualifications acceptable to the Examiner?

MR. UTZ: Yes, sir. I believe he's qualified previously.

Q (By Mr. Durrett) Mr. Huddleston, will you please briefly state to the Commission what Pennzoil Company is seeking in this case?

A Well, briefly, what we're asking for is that this well be classified as an oil well with a GOR limit of 12,000 to one. This well was originally drilled as a Devonian test, and in the process of drilling, why we tested a zone in the Morrow, and at the time that we took the drillstem test, why it was rather inconclusive because of the fact that we had more bottomhole pressure than we had hydrostatic fluid in the oil, so we did not properly test the zone; and at that time we thought that possibly the reservoir was gas, but when we came back and completed it, why then additional data indicated that it probably was oil with real high ratio.

Q Mr. Huddleston, is Pennzoil Company, in this case, seeking first to have special pool rules promulgated by the



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1120 SIAMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO 1203 FIRST NATIONAL BANK EAST • PHONE 256-1294 • ALBUQUERQUE, NEW MEXICO commission providing for 80-acre spacing and a gas-oil ratio of 12,000 to one; and then in the alternative if the Commission would not see fit to do that, for the creation of a gas pool, is that correct?

- A That is correct.
- Q Do you have a plat of this area, Mr. Huddleston?
- A Yes.

(Whereupon, Pennzoil's Exhibit No. 1 was marked for identification.)

- Q Has that been marked as Exhibit No. 1?
- A This is marked as Exhibit 1.
- Q Would you please briefly state to the Examiner just what that shows?
- A Well, this is a plat of a portion of Township 17 South, Range 34 East, and in particular, covering Section 11. It shows an 80-acre tract in the North Half of the Northeast Quarter which belongs to Pennzoil, and we drilled a well 660 out of the north and east, as I previously stated, which was a Devonian test, which is indicated on this plat.
  - Q Is that your Bridges-State Well No. 1?
  - A That is correct.
  - Q That is in Section 11 of 17 South, 34 East?
  - A That's right, Unit A.
  - Q How is that indicated on the plat?



AIBUQUERQUE, NEW MEXICO
ALBUQUERQUE, NEW MEXICO

2 • PHONE 243-6691 PHONE 256-1294 • A

BOX 1092

O SIMMS BLDG. . P.O. B.

SPECIALIZING IN: DEPOSITIONS,

The tract is outlined in yellow and the well is

And the plat also is a lease ownership plat, is circled in red. Q that correct?

Yes. As far as we're aware, a correct ownership Α plat.

(Whereupon, Pennzoil's Exhibit No. 2 was marked for identification.)

Now, Mr. Huddleston, I hand you what has been marked as applicant's Exhibit 2 and ask you if you will please identify that.

Well, this is all the New Mexico Oil Conservation Commission forms that were filed in relation to this well, from the permit to drill through a four point back-pressure test that we ran on the well, and also potential, an oil potential that we ran.

Would you like to call the Examiner's atlention to any particular pertinent parts of that, or is that just for general information purposes?

Unless a specific question is asked, why we would just like to introduce it for general information.

- You did plug back this well, now, is that correct? Q
- That's correct. This well was originally drilled to 13,370 in the Devonian and tested the Devonian, which was



STATE MENTS, EXPERT TESTIMONY, DAILY

HEARINGS,

SPECIALIZING IN:

# 1120 SIAMS BLDG. • 1.O. BOX 1092 • PHONE 243-6691 • ALEUQUERQUE, NEW MEXICO 1203 FIRST NATIONAL BANK EAST • PHONE 256-1294 • ALBUQUERQUE, NEW MEXICO

wet, and as I stated previously, we had set pipe to around 12,000 feet and we plugged back to the base of this casing and completed in the smaller zone.

(Whereupon, Pennzoil's Exhibits 3 and 4 were marked for identification.)

Q Mr. Huddleston, passing applicant's Exhibit 3 for the moment and proceeding to applicant's Exhibit 4, which appears to be a log, would you please state to the Examiner what that is, is it a log of the well?

A This is a gamma ray neutron log, it's a composite gamma ray neutron log, actually we logged the well three times, but if you'll look on there from 11,952 to 11,990, which is the zone that we're referring to in requesting an oil allowable in this case.

- Q Is that marked specifically, Mr. Huddleston?
- A The zone is not marked on the logs.
- Q Will you give them the depth again, please?
- A 11,952 to 11,990.

MR. DURRETT: Does the Examiner have that?

MR. UTZ: 952?

A Yes, sir.

MR. UTZ: 11,990?

A Yes, sir, that's correct. We feel that there was 38 feet of net pay in this zone. The calculations from the



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CONVENTIONS

HEARINGS, STATE MENTS, EXPERT TESTIMONY, DAILY COPY,

SPECIALIZING IN: DEPOSITIONS,

log indicated that it had one percent porosity and water saturation of approximately thirty percent.

MR. UTZ: The log doesn't go to 990, though, does it?

- A That's a composite log, Mr. Utz.
- Q (By Mr. Durrett) Now, Mr. Huddleston, going back to the applicant's Exhibit 3, will you please state to the Examiner what that is?

A Well, this is actually a tabulation of some bottomhole pressures that we ran on the well and some production tests. The initial bottomhole pressure on the drillstem test was 7,023 pounds. We produced the well seven days, produced 1157 barrels of oil and 21,240 MCF of gas.

MR. PORTER: That's seven days?

A Yes, sir. Which had a gas-oil ratio of 18,400.

We took an 82-hour bottomhole pressure and we did not run a buildup on this pressure, so we did not have any indication at the time that we ran this pressure how long it would take to build up, and after producing this amount of oil, why the pressure built back up and stabilized at 6721.

We had pressure drop of 302 pounds while having produced this amount of oil, which represented actuall 3.73 barrels of oil and 71 MCF of gas per pound pressure drop. We then produced the well seven more days and produced 1190 barrels of oil and 16,105 MCF of gas, and this ratio at this time was



# dearnley-meier

NEW MEXICO 1092 BOX 1 P.O. 1120 SIMMS 1 1203 FIRST N

CONVENTIONS

EXPERT TESTIMONY, DAILY COPT,

SPECIALIZING IN:

13,550, a detail of this seven days' test is another exhibit here, and we ran a flowing pressure and buildup and the well completely stabilized, bottomhole pressure completely stabilized in four hours, and at this time we had 267 pounds pressure drop from the previous pressure, and at that point we produced 4.46 barrels of oil and 60.5 MCF of gas per pound pressure drop, which was a total pressure drop of 569 pounds, and it averaged producing 4.13 per pound, and so you can see we had a substantial drop in pressure, having produced a limited amount of oil.

> (Whereupon, Pennzoil's Exhibit No. 5 was marked for identification.)

I hand you what has been marked as applicant's Exhibit No. 5. Is that the detailed data you were speaking of a moment ago?

Yes. This is the detailed data on the last seven day test that we conducted on this well. Those were the actual gas and oil rates, choke size and the tubing pressure during this time.

What does the data shown on these exhibits indicate to you, Mr. Huddleston, concerning this well?

Well, we feel like that it indicates an extremely limited reservoir and, as you can see, we suffered a 569-pound pressure drop and produced a little over 2200 barrels of oil,



so we feel like that the reservoir probably doesn't have maybe twenty-five, thirty thousand barrels of oil in it, and I am sure that a straight line decline on the thing will indicate that the reserves are in the order of maybe 25,000 barrels of oil, but I am sure that it will be slightly parabolic, so it probably will have between twenty-five and thirty thousand barrels. I would be hesitant to pin it down any closer than that.

- Q You wouldn't feel this is a real good well, would you, Mr. Huddleston?
  - A No, I would feel very unfortunate about it.
- Q Do you have data there that would indicate to you that the well would be capable of draining 80 acres?
- A Well, the only data that we have that indicates this is the fact that on this -- Let's enter this as an exhibit.

MR. DURRETT: Let's have this marked as applicant's Exhibit 6.

(Whereupon, Pennzoil's Exhibit No. 6 was marked for identification.)

- Q Handing you what has been marked as applicant's Exhibit 6, would you please identify that for the Examiner?
- A This is a flowing bottomhole pressure and buildup pressure that we ran on the well after we had flowed it the second seven-day period. The flowing bottomhole pressure on



1203

this 16/64 choke was 2572 pounds, and in four hours the well had completely stabilized at 6442 pounds. So we feel like that this indicates excellent permeability.

Now, I did not make a detailed calculation on this, but we feel that any well that would build back up and be stable in four hours has excellent permeability.

Q That would be all the data that you would have available to you at this time to make a decision concerning the amount of acreage that could be efficiently and economically drained by this well?

A That's right. I feel like that a well with a bottomhole pressure stabilized in 48 hours would be capable of draining 80 acres.

Q Did you state previously the gravity of the oil, Mr. Huddleston?

A Well, the gravity, the oil is a slightly straw color, definitely has an oily texture, is 49 degrees API gravity, corrected to 60 degrees Fahrenheit.

Q Would you briefly discuss the economics involved with this well, Mr. Huddleston?

A Well, this well cost \$346,000 and we've calculated that to complete a Morrow well would cost \$280,000, and if we were to produce this well in compliance with the statewide rules for an oil well, why we would have a 37-barrel a day



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allowable, and we just don't feel like that we'd ever, it would be just almost infinite payout on the well.

MR. PORTER: Is that 37 barrels taking into consideration ---

- A 2,000 to one GOR limit.
- Now, with a GOR of 12,000 to one, you still feel that you would have some difficulty paying the well out, is that correct, Mr. Huddleston?
- We don't actually think we can pay the well out, Mr. Durrett. We feel like this twenty-five, thirty thousand barrels is going to fall pretty short of the \$346,000 we have in the well and we have no intentions of additional development in the area because, as you can see, why \$280,000 is still going to be kind of bad economics.
- Is it your opinion, Mr. Huddleston, that it would not be necessary to have one well on each 40 in order to efficiently develop this reservoir, whatever the extent of it?
- I feel like it would very adequately drain 80 acres if it was an extended reservoir. Of course, we certainly don't know what the aerial extent of it is, but we feel like it is really limited.
  - Do you have a purchaser for the gas?
- We do not. We have made several contacts and everyone is very hesitable on laying high pressure line to the

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well because of the limited amount of gas it indicates that is available, and we probably, in order to sell the gas, we are going to have to lay a line ourselves.

Q In referring again to the economics, Mr. Huddleston, what do you anticipate will be the price you are going to be able to get for the gas?

A Well, the only indication we have had is that we will have to sell it as low pressure gas and probably get about six cents an MCF for it. I would like to add this: These people, they are not even very encouraging about this that we have found yet. I am sure we are going to have to put in our own system to sell anything from the well.

- Q Which is going to involve how many lines?
- A Approximately four miles of high pressure lines.
- Q Which doesn't add to the economics of the situation?

A No, it does not. It costs at least a dollar a foot for the line.

Q Now, proceeding to the alternative part of your application, Mr. Huddleston, am I correct that there is some question as to whether or not this is really an oil pool or a gas pool?

A Well, certainly with the ratio like this, and the fluid characteristics you have, that the only way you can



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ever definitely establish this would be to run some rather extensive fluid samples and stuff like that.

MR. PORTER: Bottomhole sample?

A Right, Mr. Porter, and we feel like this would run us, oh, four or five hundred dollars and we would just rather not tack it onto the cost that we have in the well to date.

Q From Pennzoil's position, if the Commission should determine from the information available that this would be better classified as a gas well, Pennzoil would have no objection to that as such, would they?

A Not as long as we would sell sufficient amount of gas to justify the expense of putting in a high pressure gas line and everything. Even this is a questionable economics.

Q Have you contacted the offset operators concerning your situation, Mr. Huddleston?

A The offset operators both to the south and to the west were invited to join 320-acre gas proration unit, and both declined.

Q Do you have anything further you would like to present to the Examiner?

A I do not, other than one thing, when we can the four point back pressure test on the well, that it really didn't make a great deal of difference at what rate we flowed the well and only had a calculated absolute open flow of 3.8 million.



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You can see that it would really be questionable that it is a gas well from being able to have a stabilized bottomhole pressure in four hours and then turn around and only be able to flow this, why we question that from this standpoint, that it really is a gas well.

- Q From Pennzoil's position, they would much prefer that the pool be classified as an oil pool?
  - A Yes, sir.
  - Q And spaced on 80 acres with a 12,000 to one GOR?
  - A Yes, that's what we would prefer.

MR. DURRETT: If the Examiner please, that will conclude our case on direct. I would like to move the introduction of the exhibits at this time.

- Q (By Mr. Durrett) Mr. Huddleston, were Exhibits 1 through 6 prepared by you or under your direction and supervision?
- A Yes, that's correct. They were all taken from our files.

MR. DURRETT: If the Examiner please, I would move the introduction of the Exhibits 1 through 6.

MR. UTZ: Without objection the Exhibits 1 through 6 will be entered into the record of this case.

(Whereupon, Pennzoil's Exhibits 1 through 6 were offered and admitted in evidence.)



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### CROSS EXAMINATION

### BY MR. UTZ:

- I have been perusing your four point test a little Q bit in connection with the probable classification as a gas well. I note that your GOR or gas-liquid hydrocarbon ratio was noted here as 8365.
- That's correct. That is what it was when we ran the Α four point on it.
  - Was this an aggregate GOR for all four points? Q
  - Yes, it was.
  - And you did not take GOR's for each rate of flow? Q
- No, they did not, they just measured the total gas and total oil. That's also what that first seven-day flow period represents. That was the total. We did not have an adequate detailed breakdown on that.
- Do you know whether or not -- Let me see now, this  $P_{w}$  measured on this well?
  - Yes, with a bomb.
- No, measured at the well head. Is this bottomhole Q test?
- That was not a calculated bottomhole pressure. That was actually measured with a bomb.
  - This is a bottomhole test then?
  - Yes, sir. A



- Q So all your measurements were taken with a bomb?
- A Yes, sir, that's correct. They are accurate from the standpoint that we didn't try to calculate them.
- Q Which accounts for your quite good point alignment on the test, undoubtedly?
  - A Yes, sir, that's right.
- Q I was in hopes we had one test that had been calculated and got alignment on. Does this well, even though it had a low GOR, did test pretty well as far as point alignment and probable accuracy of the test is concerned, didn't it?
  - A The first test we ran on the well, actually we had to test the well twice, the first test, why the alignment was so poor we couldn't make heads or tails of it at all, so we retested the well, actually. This is the second test on it.
  - Q You say this, your liquids, what color is that, amber color?
  - A Yes. I would say that it's amber colored. It's very similar to the Bough "C" production in northern Lea

  - A Well, there again, unless you run one of these detailed fluid analyses, I just don't really believe that you



can say, but we feel like that it was an oil.

- Q You feel like that the gas is coming from solution or from a separate zone?
  - A We feel like that it's coming from solution.
  - Q How far are you from a high pressure line?
  - A Approximately four miles.
  - Q Whose line is that?
  - A That's Phillips.
  - Q Gasoline plant?
- A There is a low pressure line in the area and we're not going to gain anything pricewise by laying a line to their other line, but the low pressure line there near the well is loaded now and I doubt that we could put even a quarter of a mile in a day. They didn't want to even discuss that. They discussed maybe taking the second stage separation gas, and that's all.
- Q The well is too far, then, from the El Paso line or Transwestern or some transportation facility of that nature?
- A Yes, sir. Considering the reserves that we feel like the well has, it's really marginal economics to lay the four miles of line, and, as I have stated previously, neither Texaco nor Phillips are willing to lay a high pressure line to us. Of course, the Texaco plant is a high pressure system.
  - Q Where does Phillips sell their gas to from this



### plant?

- I think El Paso. Α
- Now, you are requesting a 12,000 GOR even though none Q of your tests, well, particularly this test here, is a little over 8,000, your other tests were in the neighborhood of thirteen to eighteen thousand?
  - Α The first seven-day period --
  - Q How did you arrive at this 12,000?
- Α Well, actually, we felt like this would be more than adequate to produce more than the capacity of the well if we could get a 12,000 to one ratio.
  - Based it on allowable?
  - Α Yes, sir.
- Q I believe you stated that you had no present intentions of drilling any more wells in the pool?
- Α Unless we could see some phenomena in stabilization of bottomhole pressure or something, we certainly can't. predict from the data we have now, we don't feel like we can do any additional development.
- Q The other wells shown on your Exhibit No. 1 here, what formation are they producing from?
- Those are, they are San Andres wells. They are in the north portion of the Vacuum field and those wells are completed in the San Andres, Now, there are three Queen gas



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wells in the immediate area. Those wells are completed around 3800 feet, if my memory serves me correctly.

MR. PORTER: Who is taking gas from these Queen gas wells?

They're sold into Phillips' low pressure system. Α Those wells have a pretty low BTU value. I originally drilled this Marathon well myself, and if my memory is correct, I believe that well only had an 800 BTU.

MR. PORTER: What about the San Andres oil wells in the area, are they making any gas?

Α Well --

MR. PORTER: Do they have tie-ins with any of the purchasers?

There's a low pressure system in the entire area, but the system is, or at least Phillips indicated that the system was pretty well loaded. I notice that Marathon was taking as much as a million a day out of this well in Section 12, and these other two wells are also going into that system, so I suppose that these gas wells are pretty well loaded in that low pressure system.

MR. PORTER: That's the one that you say you probably couldn't produce a quarter of a million a day?

Yes. What they told us, they just didn't want us on the line because we would pop everyone else's back pressure



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valves. They didn't even want to talk about even a quarter of a million a day.

MR. UTZ: Are there other questions of the witness?

MR. PORTER: Yes, I had another one or two.

### BY MR. PORTER:

- Q This is a single zone completion?
- A Yes.
- Q You don't have any other phase that you can complete in?
  - A No, sir.
- Q You were talking about the alternative of creating a gas pool here. How much acreage does your company own here?
  - A We have only the 80 acres.
  - Q Only the 80 acres?
  - A Yes, sir.
- $\Omega$  If it was classified as a gas well, it's automatically 320-acre spacing, is that right?
- A Unless we could get an exception to the statewide spacing.
- Q So you would have to form a unit of 320 acres and share in the proceeds from the well with the other owners?
- A That's correct. These people were originally invited to join and declined,
  - Q And they declined. I thought I understood that.



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MR. PORTER: That's all I have, Mr. Utz.

# BY MR. UTZ:

The alternative would be an 80-acre non-standard Q unit, would it?

Yes, sir, that's what we would like to have, is an Α alternative to an oil well.

MR. DURRETT: I might interject here, Mr. Examiner, that if the pool is classified as a gas pool and 320 acres was the spacing which it would be under the rules, then Pennzoil's alternative at that point, since the other owners of offsetting acreage have declined to join, they would need to ask for a non-standard 80-acre unit, of course, realizing that if some of the owners might change their mind there's a possibility of compulsory pooling to share some of this well.

MR. UTZ: You anticipate that they might object to non-standard unit of 60 acres?

MR. DURRETT: I don't think that Pennzoil really anticipates that they would object, is that correct, Mr. Huddleston?

That's correct. Even as a Morrow completion we're talking about \$280,000.

MR. PORTER: But it's your opinion, Mr. Huddleston, as a petroleum engineer, that the reservoir would not warrant? further drilling?



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MS BIDG. • P.O. BOX 1092 • PHONE 243-6691 • AIBUQUERQUE, NEW MEXICO T NATIONAL BANK EAST • PHONE 256-1294 • AIBUQUERQUE, NEW MEXICO A That's correct.

MR. PORTER: Regardless of the classification of the well?

A That's correct. I don't see how that the well could possibly have more than maybe 35,000 barrel reservoirs. If you straight line decline the well, it only has about 20,000, but I am sure it would be slightly parabolic. This was indicated by our second pressure point, it was indicating a parabolic effect.

MR. PORTER: Thank you.

MR. UTZ: I note from your application you have asked for 330-foot locations, 80-acre spacing. This well was drilled on a 660 location, what is the reason for 330?

A Just for flexibility.

MR. UTZ: You are not going to drill any more wells. you don't need much flexibility?

A No, you don't.

MR. PORTER: Not much need for pool rules as far as that's concerned?

A We don't exactly enjoy the situation we're in.

MR. UTZ: Are there any other guestions? The witness

may be excused.

(Witness excused.)

MR. UTZ: Are there any other statements in this case?



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MR. HOOVER: Mr. Examiner, John Hoover with Gulf.

MR. UTZ: Yes, sir.

MR. HOOVER: Gulf Oil Corporation has been furnished completion and test information on this well. From these data we feel that it is a gas well. We feel that it is premature to designate this as an oil pool and provide for 80-acre spacing. The development on 80-acre would result in drilling of unnecessary wells and economic waste if the well should later on be reclassified as a gas well. Gulf, therefore, recommends that the well be classified as a cas well until further production history is available. If, in the final analysis, from future production history, the Commission determines this to be an oil pool, development could then proceed on a prescribed basis spacing pattern.

MR. UTZ: John, don't you think this is a pretty low ratio gas well?

MR. HOOVER: We think it will go higher.

MR. UTZ: You think it will turn into a gas well?

MR. HOOVER: We think it's a gas well now, looking at the liquid and not knowing the circumstances, you could say that was distillate.

MR. UTZ: Any other statements?

MR. HATCH: We have a telegram addressed to "New Mexico Oil Conservation Commission, Santa Fe, New Mexico,



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120 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO 203 FIRST NATIONAL BANK EAST • PHONE 256-1294 • ALBUQUERQUE, NEW MEXICO June 7th, 1963. Attention, Mr. Daniel S. Nutter. Re Case No. 3410 Pennzoil new pool and special rules, Lea County, New Mexico. Mobil Oil Corporation is the owner of substantial acreage in the area of Pennzoil Oil Company's Bridges-State Well No. 1 in Unit A, Section 11, Township 17 South, Range 34 East, Lea County, New Mexico. It is Mobil's position that conditions in the field are now premature for the adoption of oil field rules. But if the Commission is of a mind to adopt such rules, Mobil recommends oil units no smaller than 160 acres. Mobil at this time favors classification of production from this pool as gas. Ira B. Stitt, Jr., Division Operations Engineer, Mobil Oil Corporation."

MR. DURRETT: In reply, I would like to state that we feel we have already replied to those by Mr. Huddleston's testimony.

MR. UTZ: I think I would be inclined to agree with you, counsel. We will take the case under advisement.



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I, ADA DEARNLEY, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

Witness my Hand and Seal this 10th day of June, 1966.

NOTARY PUBLIC

My Commission Expires: June 19, 1967.



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# NEW TXICO OIL CONSERVATION COMITSION Santa Fe, New Mexico

Form G-101 Revised (12/1/55)

NOTICE OF INTENTION TO DRIEL.

# NEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION LAT

form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section Well No. PENNZOIL COMPANY Bridges-State 3 55 PH . 85 Unit Letter Township Hange County Α 11 17-S Lea 34-EActual Footage L 660 North 660 feet from the Ground Level Elev: Producing Formation Dedicated Acres 4043 Devonian Wildcat 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation \_ Yes No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)\_ No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION 660 I hereby certify that the information con-0 660 tained herein is true and complete to the best of my knowledge and belief. Mgr. Drlg. PENNZOIL COMPANY October 27, 1965 I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. 26. Ket his jugistered Professional Engine Certificate No. 3

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11-5-65 11-6-65 11-7-65	Spudded at 9:00 p Set 13-3/8" 48# F regular cement pl 2:00 p.m. W. O. C. 24 hrs. 30 minutes. No p	o.m. H-40 casing lus 2% cald Tested 1. pressure cl	g at 421' and cemes included at 421' and cemes in the cium chloride. Plus 3-3/8" casing with hange observed dur	nted with 425 Sx ug down at 600 psi for
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11-5-65 11-6-65 11-7-65	Spudded at 9:00 p Set 13-3/8" 48# E regular cement pl 2:00 p.m. W. O. C. 24 hrs. 30 minutes. No p	Tested 1.	g at 421' and cemes included at 421' and cemes in a 421' and cemes	nted with 425 Sx ag down at 600 psi for ing test period.
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•			$\bigcirc$	
NO. OF COPIES RECEIVED	$\neg$		$\cup$	
DISTRIBUTION				Form C-103 Supersedes Old
SANTA FE	NEW MEXICO	O OIL CONSERVATION COMM	ESION C. C. G.	C-102 and C-103
FILE	THE WEATER	DOLL COMPER AN HOM COMM	1331014	Effective 1-1-65
U.S.G.S.		DEC - 5	7 52 11 155	5a Indicate Type of Lease
LAND OFFICE	-		. 73	State X Fee
OPERATOR				5. State Cil 4 Gas Lease No. E-580
SL (DO NOT USE THIS FORM F	INDRY NOTICES AND REPORT NOTICES AND REPORT OF THE PROPERTY OF	PORTS ON WELLS PEN OR PLUG BACK TO A DIFFERENT ( 1101) FOR SUCH PROPOSALS.	RESERVOIR.	
OIL GAS WELL		ng well.		7. Unit Agreement Name
2. Name of Operator PENNZOIL COMPA	NY			8. Furm or Lease Name Bridges-State
3. Address of Operator 1007 Midland S	avings Building,	Midland, Texas		9. Well No.
4. Location of Well UNIT LETTER A	660	North LINE AND 66	0	10. Field and Pool, or Wildcat Wildcat
THE East	SECTION TOWNS	17-S . RANGE	34-E	
	15. Elevation (	Show whether DF, RT, GR, etc.)		Lea
		Indicate Nature of Notice	-	
NOTICE	OF INTENTION TO:		SUBSEQUENT	REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND	ABANDON REMEDIAL WORK		ALTERING CASING
TEMPORARILY ABANDON		COMMENCE DRILLIN	IG OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING	CHANGE PL	ANS CASING TEST AND C	Х врс тизмэ:	
•		CTHER		
OTHER				
	eted Operations (Clearly state ali	l pertinent details, and give pertin	ent dates, including	estimated date of starting any proposed
work) SEE RULE 1103.	32501 - 5 0 5 /01	40# T CMC 2 27		T SMC engine
		40# J STC and 37		
		ented w/800 Sx In		=
		1 cement contains	d 8 lbs of	salt per Sx.
Plu	ig down at 1:30 a	. m. 11-24-65.		
	D.C. 24 hrs. Tes pressure change	ted casing to 150 observed.	0 psi for	30 minutes.
	-			
18. I hereby certify that the infor	rmation above is true and comple-	te to the best of my knowledge and	d belief.	
000				
SIGNED _ Charles	1 Dicam	THE Mgr. Drilling	ng & Produc	etion <sub>e</sub> 11-29-65
a samuel de la companya de la compa	`			
APPROVES BY	•	TITLE		3ATE
CONDITIONS OF APPROVAL,	F ANY:			

NO. OF COPIES RECEIVED	Form C-103
DISTRIBUTION	Supersedes Old C-102 and C-103
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION	Effective 1-1-65
FILE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
U.S.G.S.	5a, Indicate Type of Lease
LAND OFFICE	State X Fee.
OPERATOR	5. State Oil & Gas Lease No.
CIMPRA MATICAL AND DEPORTS ON WITH A	
SUNDRY NOTICES AND REPORTS ON WELLS  (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL ON TO DEEPEN OR PLUE BACK TO A DIFFERENT RESERVOIR.  USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)	
1.	7. Unit Agreement Name
WELL GAS WELL OTHER Drilling Woll	
2. Name of Operator	6, Farm or Lease Name
Pennzoil Company	Bri∂ges-State
3. Address of Operator	9. Well No.
1007 Midland Savings Bldg., Midland, Texas 79701	1
4. Location of Well	10. Field and Pool, or Wildcat
UNIT LETTER A , 660 FEET FROM THE MOTELL LINE AND 660 FEET FROM	Wildcat
THE East LINE, SECTION 11 TOWNSHIP 17-S RANGE 34-E NMPM	
15. Elevation (Show whether DF, RT, GR, etc.)	12, County
4043 Ground Level	Lea (IIIIIIII
Check Appropriate Box To Indicate Nature of Notice, Report or Ot	her Data
NOTICE OF INTENTION TO: SUBSEQUEN	T REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING CASING TEST AND CEMENT 193 X	
OTHER	U
17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including	estimated date of starting any proposed
work) SEE RULE 1703.	
2-12-66: Set 7" 26# & 29# N-80 & P-110 casing at 12,7	28' and cemented
with 700 sacks Incor 50/50 Posmix with 3/4 of 1% CFR-2	1/4# Slacele
per sack, 10# salt per sack and 2% gel. Plug down at 1	10.00 3% 2/12/66
por busing non burn por busin and, and gerr aring down are	10:00 AM 2/12/00.
2-14-66: MY 36 had - Modera 70 project with 2000% sin	20 mins 17-
2-14-66: WOC 36 hrs Tesped 7" casing with 2000% for	30 mins. No
pressure change observered during test period.	
18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.	
SIGNED PITTLE DEILLING Supt.	mare 175% 3.5 3.655
STORE	
APPROVED BY	OATE
CONDITIONS OF APPROVAL, IF ARY:	
CONDITIONS OF REPROVED IF AG.	

NO. OF COPIES RECEIVED	m
DISTRIBUTION HOUSE OF COME OF COME	Form C+103 Supersedes Old
SANTA FE NEW MEXICO DIL CONSERVATION COMMISSION	C-102 and C-103
SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION	Effective 1-1-65
U.S.G.S.	5a, Indicate Type of Lease
LAND OFFICE	State X Fee
OPERATOR	5. State Oil & Gas Lease No.
	E-590
SUNDRY NOTICES AND REPORTS ON WELLS	
SUNDRY NOTICES AND REPORTS ON WELLS  (DO NOT USE THIS FORM FOR PROPOSALS TO BRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.  USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
OIL GAS OTHER Drilling Well	7, Unit Agreement Name
2. Name of Operator	8. Farm or Lease Name
PENETEOIL COMPANY	Bridges-State
3, Address of Operator	9, Well No.
1007 Midland Savings Bldg., Midland, Texas	卷1
4. Location of Well	10. Field and Pool, or Wildcat
UNIT LETTER A 660 PEET FROM THE NOTTH LINE AND 660 PEET FROM	Wildcat
THE East LINE, SECTION 11 TOWNSHIP 17-S RANGE 34-E NMPM.	
15. Elevation (Show whether DF, RT, GR, etc.)	12. County
(	Lea ////////
Check Appropriate Box To Indicate Nature of Notice, Report or Oth	er Data
NOTICE OF INTENTION TO: SUBSEQUENT	REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON COMMENCE DRILLING OPHS.	PLUG AND ARANDONMENT
PULL OR ALTER CASING CHANGE PLANS CASING TEST AND CEMENT JQB	Disam is a min
OYMER	Plug back X
OTHER	
17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including	estimated date of starting any proposed
work) SEE RULE 1103.	
Verbal approval to plug back obtained from Mr. Rame	ey Feb. 28, 1966.
2/28/66 - Set 150 sx. plug 3 13,050' (Top Devonian )	L2,996' - TD 13,370')
Dressed off top of plug to 12,600'.	
3/1/66 - Set HCWCO DC plug in 7" casing 0 12,180'	- Dumped 20 gallons
Hydromite on top of plug. Top of Hydromia	
	,
18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.	
the second of th	
SIGNED TITLE Drilling Supt.	March 2, 1966.
SIVACU THE STATE OF THE STATE O	UA 1 C

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION AMISSION  SANTA FE, NEW MEXICO  CERTIFICATE OF COMPLIANCE AND AUTHORIZATION  TO TRANSPORT 61 CAND NATURAL GAS  FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE  Lease  Lease									
PENNZOIL COMPANY			Bridges-State	1					
Unit Letter A Section	Township 17-S	34 <b>-</b> 2	County						
Pool Wildcat			Kind of Lease (State, Fed Fee State & N	o. E-580 )					
If well produces oil or co		A Section	Township 17-S	Range 34-E					
Authorized transporter of oil or or The Permian Corpo	<del>_</del> _	1	dress to which approved copy of and, Texas	this form is to be sent)					
	Is Gas Actually Conn	ected? Yes	No X						
Authorized transporter of casing hea	d gas or dry gas Date Con	- Address (give an	dress to which approved copy of	this form is to be sent)					
Well has not been potentialed. Gas presently flared.  REASON(S) FOR FILING (please check proper box)  New Well									
Remarks Request for temporary establishment of condensate transporter While Well is being tested.  The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.									
Execu	ed this the day of	erch	, 19 <u></u> .						
OIL CONSERV	ATION COMMISSION	Company PIDE	Al Ana uction Manager MZOIL COMPANY						
Date			7 Midland Saving land, Taxas 7970						

DISTRIBUTION SANTA FE					SERVATION			Sa. In	orm C-10 evised 1 dicate T	-1-65 Ype of Lease
U.S.G.S.	WELL	- COMPLETI	IUN UK	RECC	MPLETIO	1 REPUI	CI AND	LUGL		Gas Lease No.
OPERATUR							···			
b. TYPE OF COMPLET	OIL WELL	EVS X		DRY 🗌	OTHER			ļ		ment Name
NEW WORL WORL		PLUG BACK	DIF	vi. 🗌	OTHER	<del></del>	<del></del>	Br		s-State
PENNZOIL C	<b>PANY</b>									1
1	nd Savings	<b>Buildin</b> g	, Mi	dlan	d, Texa	s 797	01		Wild and	Pool, or Wildcat
4. Location of Well	660			Ŋ		660				
UNIT LETTER	LOCATED	FEET FROM	A THE		LINE AND	XIII	iiin		ounty	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
THE F. LINE OF S	EC. 11 TWP.	17-S RGE.	34-	E NMPM		7111XI		· · · · -	ea	
15. Date St unded 11-5-65 20. Total Depth	16, Date T.D. Reach 2-26-66	3-14-	-66		40	43 GR		• 		4043
13,370'	12,16			ony I Multipi	e Compl., Ho	23, 1	orilled By	Rotary Tool	э )	Cable Tools
24. Producing Interval(s	, of this completion -	Top, Bottom, N	Vame					<del></del>	25	. Was Directional Survey Made
	11,979' Low	er Penn.	M)	orro	w)		············	·		No
26. Type Electric and O						·····			27, Wa	s Well Cored NO
CASING SIZE	WEIGHT LB./FT.	CASIN DEPTH S			ort all strings		<del></del>	G RECORD		AMOUNT PULLED
13-3/8"	48#	421		17		420		o RECORD		None
9-5/8"	36# & 40#			12½			50 Sx			None
7"	26# & 29#	12,728		8-3	/4	7	00 Sx			None
29.	LINES	RECORD				30.		TUBIN	G RECO	RD .
SIZE	тор	BOTTOM S	ACKS C	EMENT	SCREEN		SIZE	DEPTH		PACKER SET
None used	-					EU		11,910		11,900
31. Perforation Record (	11,970-76'	, 3/8" h	oles	4/6	32. DEPTH	INTERVA				D MATERIAL USED
11,962-68' &	11,970-76'	, 3/8" h	oles	2/f	d					
11,960-64 &	11,972-79',	3/8" ho	les	2/ft	Natu	ral				
33.				PROD	DUCTION	<del></del>	<u></u>			
Date First Production 3-14-66	Production Flow	ing	ng, gas l	ift, pump		d type pur	19)			(Prod. or Shut-in)
Date of Test 4-11-66	Hours Tested	Choke Size * Various	Prodin. Test Pe	For	он <sub>Вы.</sub> 115.86		мсг 36	Water = 18 None		6365
Flow Tubing Press. Various *	Casing Pressure Pkr.	Calculated 24- Hour Hate	он – в 278		Grs - 1 3,1		Water -	one	4.	Gravity – API (Corr.) 3.6
34. Disposition of Gas   Negotiatia	Sold, used for fuel, v	ented, etc.)						Joe A		ı leman
35, List of Attachments Four-poin		illstem	Test	Dat	a, Inc	linat	ion S			
16. I hereby certify that	the information show	n on both sides	of this fo	orm is tr	ue and comple	te to the b	rst of my l	knowledge an	d belief.	
Signed Age	1.16. D.	au-	. TIT	LE	Product	ion M	anager	DAT	ε <u>Α</u>	pril 15,1966

<sup>\*</sup> Multi-point back pressure test.

### INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico					Northwestem New Mexico				
T.	Anhy 1055 Balt 1775		11 100		Ojo Alamo		Penn. "C"		
B.		т.	Atoke 11,530	T.	Pictured Cliffs	T.			
T.	7 Rivers 3885	T.	Devonian 13,000	T.	Menelee	T.	Madison		
	Grayburg	T.	Silurian	T.	Mancos	T.	McCracken		
T. T.			Simpson						
T. T.	Blinebry		Ellenburger						
T. T.	Tubb 7360 Drinkard		Granite  Delaware Sand						
T T.	Abo 8030 Wolfcamp 9450	T. T.	Bone Springs		5.7				
T.	Penn 10,770	Τ.		T.	Permian	T.			

## FORMATION RECORD (Attach additional sheets if necessary)

T Cisco (Bough C) \_\_\_\_\_ T.

T. Penn. "A"\_\_\_\_\_\_ T. \_\_\_\_

From	То	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1655	1655	Daliche, Redbeds, Sd	•			
			and Congl.				
1655	1775	110	Anhy & dolo.				
1755	2740	985	Salt & Anhy.				
2740	2906		Anhy & dolo.				
2906	3885	979	Anhy, Sand & dolo.				
			Dolo, Sana & Anhy.				
			polo & lima	<del> </del>		;	:
6073	6170	97	Sand & Sdy Dolo.				
6170	7360	1190	polo, sand & chert				
	8030	1	polo w/sand at top		1		
8030	9450	1420	colo, shale & lime		! : !		
9450-	10770	1320	Lime, male & chert		i		
10,770-	11183	413	Shale, lime & sand				
11,183-			Silicious Lime, shale	aand			
			Shale, Sand, Congl. &				
12,154-		1	Sil. Lime, chert & sh	ale at	base	į	
13,000-	-13370	370	Dolo and lime.				
			·			:	
					ŧ ſ	į į	
					1		
					1	!	
		1		ii	į.	•	

Bridges-State No. 1

A, 11, 17-S, 34-E

# RECORD OF INCLINATION

	Angle of		Accumulative
Depth	Inclination (Deg)	Displacement (Ft)	Displacement (Ft)
421	1/2	3.7	3.7
1,025	3/4	7.9	11.6
1,400	3/4	4.9	16.5
2,250	1/2	7.4	23.9
2,911	1/2	5.7	29.6
3,415	1	8.8	38.4
3,710	1/4	1.3	39.7
4,565	1	15.0	54.7
4,980	. 3/4	5.4	60.1
5,960	3/4	12.8	72.9
6,575	1	10.8	83.7
7,205	3/4	8.3	92.0
7,980	1/2	6 <b>.</b> 7	98.7
8,960	3/4	12.8	111.5
9,780	l	14.3	125.8
10,300	1	9.1	134.9
11,060	14	16.6	151.5
11,675	1-3/4	3.0	154.5
12,100	2 <sup>1</sup> / <sub>4</sub>	17.7	172.2
12,750	3½	37.1	209.3
13,370	31/4	34.9	244.2
		Total Displacement	244.2
		TO COT DESPIRACIONOME	21112

Surveys were run in open hole.

I, Charles A. Brown, hereby certify that the above information is true and correct to the best of my knowledge and belief.

Sworn to and subscribed to before me this 15th day of April, 1966.

Notary Public in and for Midland County, Texas

VERNA L. WELLS



P. O. BOX 1829

HOBBS. NEW MEXICO

APRIL 12, 1966

PENNZOIL COMPANY 1007 MIDLAND SAVINGS BANK BLDG. MIDLAND, TEXAS

> RE: GAS VOLUME TEST SAMPLE ANALYSIS

### GENTLEMEN:

IN COMPLIANCE WITH YOUR INSTRUCTIONS A 4-POINT BACK PRESSURE TEST WAS CONDUCTED AND A SAMPLE TAKEN DURING THE FLOW PEROID.

THE ABSOLUTE OPEN FLOW WAS CALCULATED TO BE 3,100. MCF/D. Average Gas production during the test was 2,326. 94 MCF/D with 278.16 BO/D. A GOR was calculated to be 8365 SCF/BO and the Gas Sample yielded component per-CENTAGES AS FOLLOWS:

CARBON_DIOXIDE		0.29
NITROGEN		0.40
HYDROGEN SULFIDE		0,00
METHANE		84.66
ETHANE		9.27
PROPANE		3.67
ISO BUTANE		0.55
NORMAL BUTANE		0.79
PENTANE		0,28
HEXANE		0.09
	TOTAL	100.00
CALCULATED SP. G.		0.6692
CALCID ATEO REH		1159
CALCOLATED DIO SAT		1100

VERY TRULY YOURS

COLLY'N PETROLETY ENG. CO.

Gova. Clem /Jóε Λ. Coleman

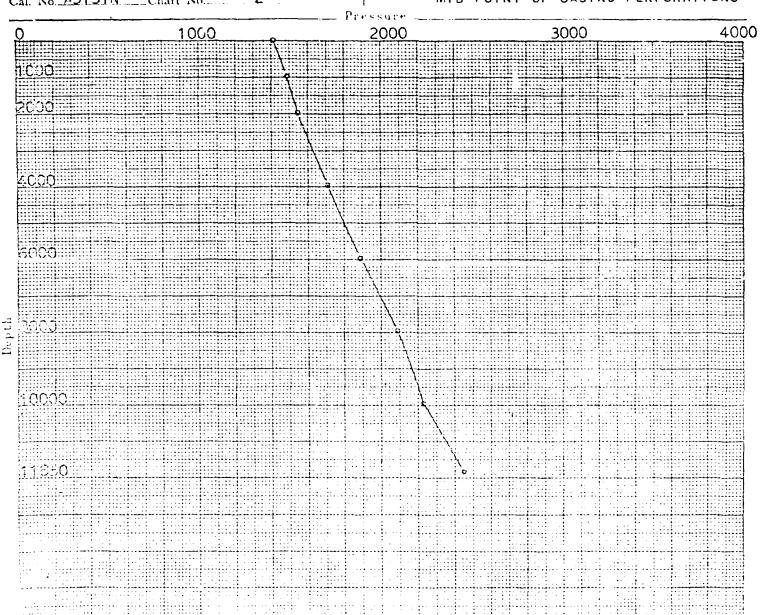


# COLEMAN PETROLEUM FASINETRIAG COMPANY

PHONE EXPRESS 3:3813
611 GRIMES
P. O. BOX 1829
HOBBS, NEW MEXICO

### BOTTOM HOLL PRESSURE RECORD

OPERATOR PENNZOIL COMPANY			
FIRE VACUUM FORMATIONMARROW GAS:	Deposit	Piessai	Gradient
TRACE BRIDGES ST. WILL NO. 1	0 .	1423	-
COUNTY LEA STATENEW MEXICO	1000	1492	. 069
DATE 4-11-66 TIME 8:00 PM	2000	1553	.061
Status FLOWING ON Test depth 11850	4000	1711	. 079
XXXXXI 20/64"CHLast test date INITIAL	6000	1896	.093
Tub Pres. 1423 BHP last test	8000	2092	. 098
Cas. Pres. PKR BHP change -	10000	2238	.073
Flow 4062 KB Fluid ton SURFACE	11850	2453	.117
Elev. 4062 KB Fluid top. SURFACE Datum (-7908) **Water top. NONE		908) 2467* **	
Temp. @_ 1760F Run by ALLMAN	* Ext	RAPOLATED PRESS	URE
Cal. No. A3131N Chart No. 2	** Mid	POINT OF CASIN	G PERFORATIONS
D			





# COLEMAN PETROLLUM ENGINEERING COMPANY

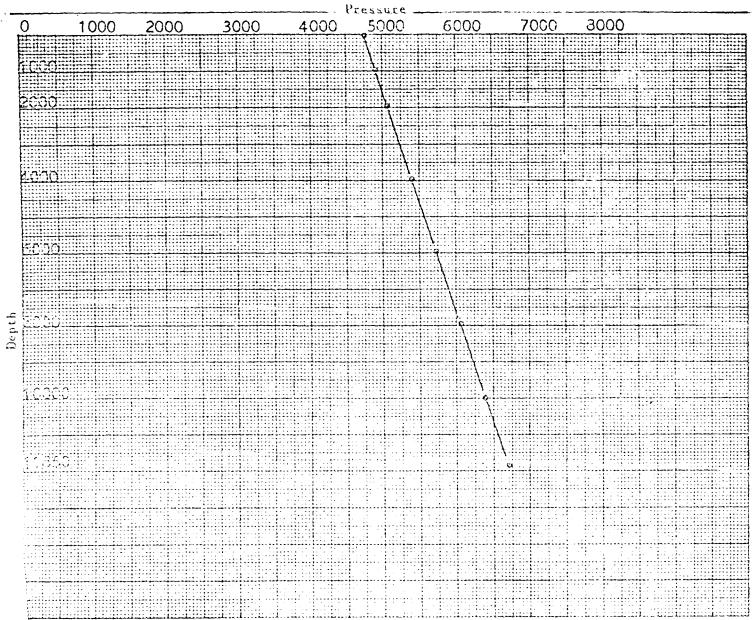
PHONE EXPRESS 3 3813

611 GRIMES
P. O. BOX 1829

HOBBS NEW MEXICO

## BOTTOM HOLE PRESSURE RECORD

Time S. 182.0 HRS Last test date Tub Pres 4770DWT_BHP last test Cas. Pres PKRBHP change Elev4062 KBFluid_top Datum(-7908)** Water_top	NEW MEXICO 8:00 AM 11850' INITIAL - NONE NONE	0 1000 2000 4000 6000 8000 10000 11850 11970(-79	4770 4928 5090 5416 5742 6070 6398 6701 908)6721*	Gradient 158 . 162 . 163 . 163 . 164 . 164 . 164 (. 164)
Datum (-7908) ** Water top				
Temp. @ 176°F Run by Cal. No. A31.31N Chart No.	ALLMAN 1		APOLATED PRESSU POINT OF CASING	
	11			

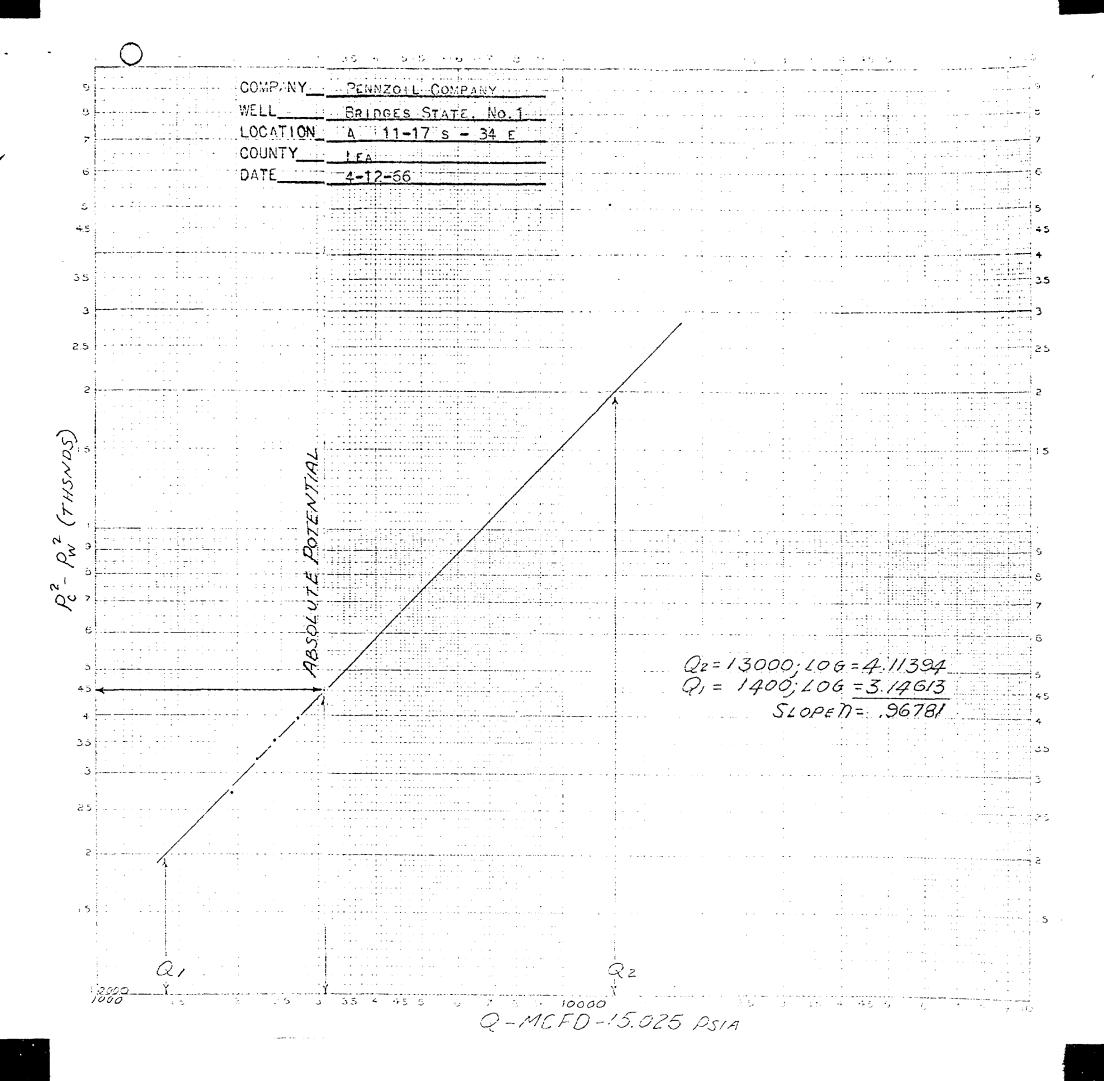


S. 517 6374 _ SERVE F 105	4.00	 		~: 0	Service of
U.L~,	74.		1 Sec. 1	التعقيب	10 Like

Pool	L <u>Umpasio</u>	NATER	<u>)</u>	50					_County		
Init	ialx	<del></del>	_Arms	'			n State of the state of the sta		_Date of	Test	4-11-65
Comp	panyPank	ZOIL	<u>Con</u> P	ANY					Wel	ll No	1
	; <u> </u>										
	ing 7 <sup>th</sup> W										1979
Tubi	ing 2 3/8 W	t. <u> 4</u> .	. 7 ĭ.	.D. <u>1.</u>	995 su	e de la companya de l	∂or	·		To	
											ss. 13.2
Prod	lucing Thru:	Cas	sing		<u>r</u> u	biag	en andere de la company de la	_Type We	11 <u>Si</u>	NOLE	
Date	of Complet:	ion;_	4-11	-66	oaolte	oracina pom omanosana	Sang Marana	ilo-Brade _Rose <mark>rve</mark>	nhead-G. ir Temp.	G. or G 176	0.0. Dual
			. ,		,	PREMARY					
Test	ted Through	<u> (%%%)</u>	<u> </u>	Choke)	(Koter)				Туре Тар	១ន	FLANGE
			Plaw Da				Tubing	None	Casing I	Da t s	
No.	(NOGSE) (Line)	(Cho	oke)		Diff.	No.rp.	Press.	Temp.	press.	Temp.	Duration of Flow
	Size		zo,	psig	$h_{W}$	· <del></del>	psig		psig	o <sub>F</sub> .	Hr.
SI !	2,11	35	773	600	1			7.50 7.50	PKR		82.0 4.0
1. 1 2. 1 3. 1 4. 5.	3 <sup>R</sup>	1,5	14/64	3 600				- 40	-		2, 25
3.	3 11	1.5	16/64	620	<u>. 43</u>	-		78		ļ <u> </u>	1.75
5.	311	11,5	20/04	600	<u> </u>			123	-	<del></del>	2.0
No.	Coeffici (24-Hou		√ h <sub>w</sub> 1	Pr Pf	essure psia	flow Zuo	Order Onlone Temp. top	Gaustiny Sactor	Compre Facto F <sub>DV</sub>	or	Rate of Flow Q-MCTPD * @ 15.025 psia
1. 2. 3. 4. 5.	14,36 14,36		131. 150.	. <del>00   0</del> . 63   6					1		*************
3.	14,36		166.	. 91   6						-54	2381.94
1	14, 35	<del></del>	<u> 190.</u>	. 2 <u>0   6</u>	<u>13.7 '</u>				1.0		2669, 88
Gas I	Liquid Hydro ity of Liqui		rocarb			@080.00 _ 63/461.	Misco-artic	Speci Speci		ity Flow	irator Gas <u>.6692</u> Ving Fluid <u>.7852</u> 5349.4
		12 ()	<u>(-790</u>	08) ***	1 2 2	/			<u>GALGUL</u>	<u>.::::::::::::::::::::::::::::::::::::</u>	
No.	Tw The (pain)	Ţ(	?	`e <sup>-3</sup>	(Po2)			2,2 	P <sub>0</sub> -P <sub>W</sub>		l. Py
					***				and a second control of the second control o		
<u> </u>	23.77.2 23.73.2	•	<u> </u>		. <u></u>		en Summeren en e	,			
5.											
0000 ADD AOD MAR	oleve Povern PANY MOSO MASSAN PANY										

No.	Coefficient		Pressure	Flow Temp.	Gravity	Compress.	Rate of Flow
	(24-liour)	$\sqrt{h_{w}p_{f}}$	psia	Factor	Factor F <sub>a</sub>	Factor F <sub>DV</sub>	Q-MCFPD
<u> </u>	71,93	_		Christia		, bv	@ 15.025 psia
<u>' </u>	71,93	_		0.013	0.12.0		50,53
·	71.93	_		92.50		_	55.33
<u>.   </u>	71.93	-	<del></del>	0.250	0144	-	57, CH
			<u> </u>		9468		77 (N)

•



# NEW EXICO OIL CONSERVATION COMMESSION Santa Fe, New Mexico

Form C-1041 Revised 7/1/57

# REQUEST FOR (CAS) ALLOWABLE

New Well Recompletion

79701

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

				Midland, Texas April 15, 1966 (Place) (Date)
WE AR	E HER	EBY R	EQUESTI	NG AN ALLOWABLE FOR A WELL KNOWN AS:
Penr		Comp	any	Bridges-State Well No. 1 in NE 1/4 NE. 1/4,
Į. Unit	Latter	, Sec.	11	T 17-S , R 34-E , NMPM., Wildcat Fool
**:*******	Lea	<b>a</b>		County. Date Spudded11-5-65
	Please in			Elevation 4043 Ground Total Depth 13,373 PHTD 12,165
<b>D</b>	C	B	A	Top Oil/Gas Pay 11,950' Name of Frod. Forn. Penn. (Morrow)
			x	PRODUCING INTERVAL -
<u> </u>		<del> </del>		Perforations 11,960'-68', 11,970'-79' Depth Depth
E	F	G	H	Open Hole —— Depth Casing Shoe 12.728 Tubing 11.910
L	K	J	I	OIL WELL TEST -
	•		1	Choke Natural Prod. Test:bbls.oil,bbls water inhrs,min. Size
				Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of
M	N	0	P	Choke load oil used): bbls.oil, bbls water in hrs, min. Size
		<u> </u>		GAS WELL TEST -
-	•	and Ceme	nting Recor	DI DO CHOKE STEETHELL DOTTE
Sire		Frei	Sax	Test After Acid or Fracture Treatment: MCF/Day; Hours Nowed
2-3/	/8 1	1910		Choke Size Method of Testing:
13-3	3/8	421	425	Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and
9-5/	/8 4	1990	1050	sand): Casing Tubing Date first new Press. Press. oil run to tanks
		2500		Gil Transporter The Permian Corporation (Temporary)
7'	1.	2728	700	Gas Transporter Undetermined
Remark	5:			
	,			
I h	ereby ce	ertify th	at the info	rmation given above is true and complete to the best of my knowledge.
Approve	d		Apri	11 15, 19 66. PENNZOIL COMPANY (Company or Operator)
	OIL C	ONSER	RVATION	COMMISSION By: Charles December 1
By:	•,			Charles A. Brown Title Production Manager
				Send Communications regarding well to:
JUL				Name PENNZOIL COMPANY - 1007 Midland
				Address Savings Blag., Midland, Texas

NO. OF COPIES RECEIVE	0		Æ-FI	LED A	FTER	TEST	ING				r C-105	
DISTRIBUTION											tsed 1-1-6°	
SANTA FE			NEW ME	EXICO OII	L CONS	ERVATION	ои сс	MMISSIC	N	,	ate Type	
FILE	WELL COMPLETION OR RECOMPLETION REPORT AND LOG							10 L	. X	i ee		
U.S.G.S.							5, State		Lease No.			
LAND OFFICE										E.	-580	
OPERATOR											M	
	<del></del>	<i>-</i>										
la, Type of Well										7. Unit	Agreement	Name
		OIL X	GAS WELL	7 .								
b. TYPE OF COMPLE	TION	WELL	WELL	I 0'	#Y []	OTHER	٠			8. Farm	or Lease	Name
NEW TAN WOR		DEEPEN	PLUG E	DIFF	<u>.</u>	OTHER				Bri	dges-S	State
2. Name of Operator							·			9, Well	1:0.	<del></del>
PENNZOIL (	MAGMOS	v								1		
3. Address of Operator		<del></del>				<del></del>				10, Fig.	11 and 200	ol, or Wildon
1007 Midla	and Sa	vings	Buildir	ng, Mi	dland	d, Te	xas			Wil	dcat	
4. Location of Well			<del></del>							-/1111	m	mmm
UNIT LETTER A		660			Nort	h	6	60				
UNIT LETTER	LOCATED	,	PEET FRO	M THE	AVOI C	LINEA	777	7777	FEET FR	OM 12. COL	777777	444444
70 m m de	7.7	3 -	C	24 10				11X11			,	
THE East Line OF :	SEC. LL	TWP.L	-S RGE.	34-E	NMPM	77777	7777.	77777		Lea		Cashinghead
	ł		1		ay to rre	,		3 Gr.		i, GR, etc.)	ł	043
11-5-65 20. Total Depth	2-26-	OO L. Plug Baci	3-14								L	
· · ·		-		22. It	any	Compl.,	ноч	23, Inter	rvais led By i	lotary Tools .3,370	ادم	ible Tools
13,370	1 1	12,165						L				
24. Producing Interval(s	i), of this co	ompletion —	Top, Bottom,	Nume								is Directional Survey ide
11,960 to	11.979	Lower	Penn.	(Morr	(wo						3	No
,				<b>,</b>								
26. Type Electric and C	ther Logs F	iun									27. Was We	ell Cored
IES, GRN,	ML, E	ond									No	
28.			CASI	NG RECOR	RD (Repor	rt all stri	ngs set	in well)				
CASING SIZE	WEIGH	T LB./FT.	DEPTH			ESIZE	<u> </u>		MENTING	RECORD		AMOUNT PULLED
13-3/8"	4.8		421		17		+		0 Sx			None
9-5/8"					12						<del></del>	
7"		<u>&amp; 40</u>	4,990			3/4			0 Sx 0 Sx			None None
	2075	& 22ii	12.728			2/3			0 02			210110
		1,1120	255000					130		TUDING	05000	
29.			RECORD					30.			RECORD	
SIZE	TOP	E	OTTOM	SACKS CE	MENT	SCRE		SIZ		DEPTH SE		PACKER SET
None Used			-					<u>2-3/8</u>	<u>;                                    </u>	,910	<del></del> _	,900
								FUE				
31. Perforation Record						32.	ACI	D, SHOT,	, FRACTL	IRE, CEMEN	T SQUEEZ	ZE, ETC.
11,962-68' &	11,97	0-761	3/8" 1	holes	4/ft	OEP	TH INT	TERVAL		AMOUNT AN	O KINO M	ATERIAL USED
11,962-68' &	11.97	0-761	3/8" 1	holes	2/ft	<u> </u>			]			
11,960-64' &	•	•	•		-		ura	1				
TT, 300-04 &		2-15	370	iic.scs	2/14							
33.			<del></del>		PRODL	JCTION			<del></del>			
Date First Production		Production	Method (Flou	ing, gas li	ft, purapi	ng Size	and tv	pe pump)		Well	Status (Pr	od. or Shut-in)
3-14-66		Flow	.ng							Sh	ut-in	•
Date of Test	Hours Te	sted 10	hoke Size	Proi'n. i		C41 Bbl.		Gns )	UCF	Water - 2hl	. Gas	s Oil Batto
4-23-66	24	ļ	20/64	Test Per	atori i	215.2	28	2,6	885	None	į	12,465
Flow Tabing Press.	Castna P		Calculated 24-	OH = 89			MOF	_1	Water = 1	L		nty - API (Com.)
1670	Pkr		iour Rate	215.2		- 6	,685		None		1	.6
34. Disposition of Gas	_ 1	1	ited etc.)							Test Witnes		
Negotiatin			inca, City							Charle		Brown
		DUTE.								CHarre	.o #:	PLOMII
35. List of Attachment	s											
		·				o na canada a como de						
35. I hereby certify the	it the inform	ation shown	on both side.	r of this fo	rm is tru	e and com	plete te	o the best	of my kno	neledge and	belief.	
/7/	2 1	1. A										
- 1 / K	1/1/1	1 K .		~,~	۾ ج	roduc	ctio	n Mar	mager	DATE	Mav	3, 1966
くいいいにひ 7 ンチケッチュ	1000 21 6	- 12 C								UALE	/	

NO. OF COPIES MEC	E HY C D	
DISTRIBUTIO	ON	1 ,
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
TRANSPORTER	OIL	
OPERATOR		
PRORATION OF	FICE	

Production Manager The May 5, 1966

DISTRIBUTION	NEW MEXICO OU C	CONSERVATION COMMISSION	_
SANTA FE		FOR ALLOWABLE	Form C+104 Supersedes Old C+104 and C+1
FILE		CAA	Effective 1-1-65
υ.s.σ.s.	AUTHORIZATION TO TRA	ANSPORT OIL AND NATURAL	GAS
LAND OFFICE		THE STATE PROPERTY.	0/13
TRANSPORTER OIL	[		
GAS			
OPERATOR			
PRORATION OFFICE			
Operator	0.5		
Pennzoil	Company		
	and Savings Blds	Midland, Texas 79701	
Reason(s) for liling (Check proper box		Other (Please explain)	-
New Well	Change in Transporter of:	Omer (Freuse explain)	
Recompletion	Oil Dry G		
Change in Ownership	Casinghead Gas Conde	= :	
Change III ownership	Conde	413.114	
If change of ownership give name			
and address of previous owner			
DESCRIPTION OF WELL AND	LEASE		
Lease Name	Well No. Pool Name, including F	Formution Kind of Lea	se Legae No
Bridges-State	1 Wildcat - Po	enn. (Morrow) State, Feder	ral or Fee State E-580
Location			
Unit Letter A : 66	Feet From The North Li	ne and 660 Feet From	The East
Unit Letter;;	Leet Flow Tile	ne dnd reet rom	The
Line of Section 11 To	waship 17-S Range	34-E , NMPM,	Lea Count
DESIGNATION OF TRANSPOR	TER OF OIL AND NATURAL G.	AS	
Name of Authorized Transporter of Oil			roved copy of this form is to be sent)
Undetermined at	this time.	•	
'Name of Authorized Transporter of Ca	singhead Gas or Dry Gas	Address (Give address to which appr	roved copy of this form is to be sent)
Undetermined at	this time.		
If well produces oil or liquids,	Unit Sec. Twp. Pige.	is gas actually connected? W	/hen
give location of tanks.		i	
76 M. January and A. Marian an		-:	
COMPLETION DATA	ith that from any other lease or pool	, give comminging order number:	
	Oil Well Gas Well	New Well Workover Deepen	Plug Back   Same Resty, Diff. Res
Designate Type of Completi	on $-(X)$ X	X	
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.3.T.D.
11-5-65	3-14-66	13,370'	12,165'
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
4043 Gr.	Penn. (Morrow)	11,950'	11,910'
Perforations			Depth Casing Shee
11,960'-68'	- 11,970'-79'		12,728
		ND CEMENTING RECORD	
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
	2-3/8	11,910'	1
17"	13-3/8	421'	420
12-1/4"	9-5/8	4990'	1050
8-3/4"	7	12.728	700
	TOD AT YOU ADY F		
OIL WELL	OR ALLUNABLE   Test must be able for this	after recovery of total volume of load o depth or be for full 24 hours)	off and what he edmor to or exceed tob a
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas	lift, etc.)
3-14-66	4-23-66	Flow	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
24 hrs.	1670	Pkr.	20/64
Actual Prog. During Test	: Oii - àbie.	Water - Bbie.	Gas-MOF
215.28	215.28	None	2685
	210.20		
GAS WELL			
Actual Prod. Tout-MCF/D	Cenyth of Tost	Bols. Condensate/MMCF	Gravity of Condensate
1		2-1-1 9-13-010-100-100-1	
Testing Method (pico), back pr./	Tuoing Pressure (Shuk-ka)	Casing Pressure (Caut-in)	Choke Size
resumy markou pros, sack pr./	, 10m2 + 100000 ( 8MUC-14 )	Ording Proposite (Mac-14)	CHOCO SIEV
. CERTIFICATE OF COMPLIAN	NCE	OIL CONSERV	VATION COMMISSION
			••
I hereby certify that the rules and	regulations of the Oil Conservatio	r. APPROVED	, 19
Commission have been complied above is true and complete to if	with and that the information given he best of my knowledge and belief	6 EY	
23010 15 true and complete to th	January and the better	1	
		TITLE	
111:11	12 1	tie – Kernin sa ku filmi i	in compliance with AULE 1104.

The form is to be filed in compliance with AUCE 1104.

If the condition allowable for a newly drilled or deopened well, and form must be accompanied by a tribulation of the deviation tests, and not the well in accordance with AUCE 111.

All a triangled form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I. II. III, and VI for changes of owner, well more or number, or transporter, or other such change of condition.

Security Sections Collé must be filed for each pool in multiply Departure Forms C-104 must be filed for each pool in multiply completed wells.

# PENNZOIL COMPANY

State Bridges No. 1

Unit A, Sec. 11, T-17-S, R-34-E

Lea County, New Mexico

BHP - Production

Initial BHP 7023#
Produced well 7 days 1157 BO, 21,240 MCF
GOR 18,400
82 Hr BHP 6721#
Pressure drop 302#
Produced 3.73 BO/# 71 MCF/#
Produced well 7 days 1190 BO, 16,105 MCF
GOR 13,550
BHP stabilized in 4 hrs @ 6454#
Pressure drop 267#
Produced 4.46 BO/# 60.5 MCF/#

Total Pressure drop 569# Average Production 4.13 BO/#, 65.6 MCF/#

BEFORE EXAMINER UTZ
CIL CONSERVATION COMMISSION
CALLER EXHIBIT NO. 34/0

# PENNZOIL COMPANY

State Bridges No. 1

Unit A, Sec. 11, T-17-S, R-34-E

Lea County, New Mexico

# WELL TEST

Date	Gas Vol. MCF	Oil BPD	Choke	T.P.
4-19-66 4-20-66 4-21-66 4-22-66 4-23-66 4-24-66 4-25-66	2,350 2,350 2,300 2,295 2,295 2,295 2,220	170 168 171 171 169 173 168	16/64 " " " "	1800 1800 1750 1750 1700 1700 1650
Total	16,150	1,190		
GOR =	<u>16,150</u> =	13,550		

CALLED THAM NER TOTAL



HOBBS, NEW MEXICO

PENNZOIL COMPANY

WELL: BRIDGES STATE, NO.1

FIELD: MACHINE MIRROW GAS

# OMBONO, OCHOIL DELISOR DE LA PROCHOTION DATA

			AL BSE				HRE AGE		
DATE	STATUS OF WELL	501.535	ा १ अह - १९५५		PRODUCTION PO/D	- PRESS! - TBB		BHP ≈(=7905	
1966	FLOWING ON 20/6	5 11			143717	1 (25.2	<u> </u>	119701F3:G	
4-25	PLEGRANG ON ZOYO	Ť.							
4-25	CHOKE RUN FLOW								
	GRADIENT & ON B						_	2 2 2 2	
	₩ттн Вомв	9:00 *	<del>-</del>	-	-	1561	PkR		
	SHUT IN	10:00	3.	00	134.00*	-	-	2572	
	11	10:15	•	1.5	_			4476	
	11	10:30	C	30 30	-	_	-	6027	
	71	11:00	*		-	_	-	- 5422	
	i.i.	12:00 N	Þ	00	~			6442	
	11	1:00 Pw	2				_	34.50	
	11	2:00		3.15	_			63.84	
	11	3:00			_	_	_	F 4 5 4	
	41	4:00			-	_		72.45 72.45	
		10:00		·	_	-		مين (۱۹۹۶) ما مع اور شو	
4-26	41				••			94 Da	
4~20	li	4:00 /2			-		-	0 (+ D++	
	17	10:00				_			
						-		6454	
	1!	10:00	7.			-	-	84.54	
4-27	11	1.00		6.4	-		-	Q4.50	
	PULLED BOMB & RUN STATIO GRADIENT	10:00 //	1	08	-	4559	~	54.54	

\* Papaudrung kinaangn Diguth a.C Moun Tuow Maor 2/2,400.57 107 0:57

BEFORE	EXAMINER	UTZ

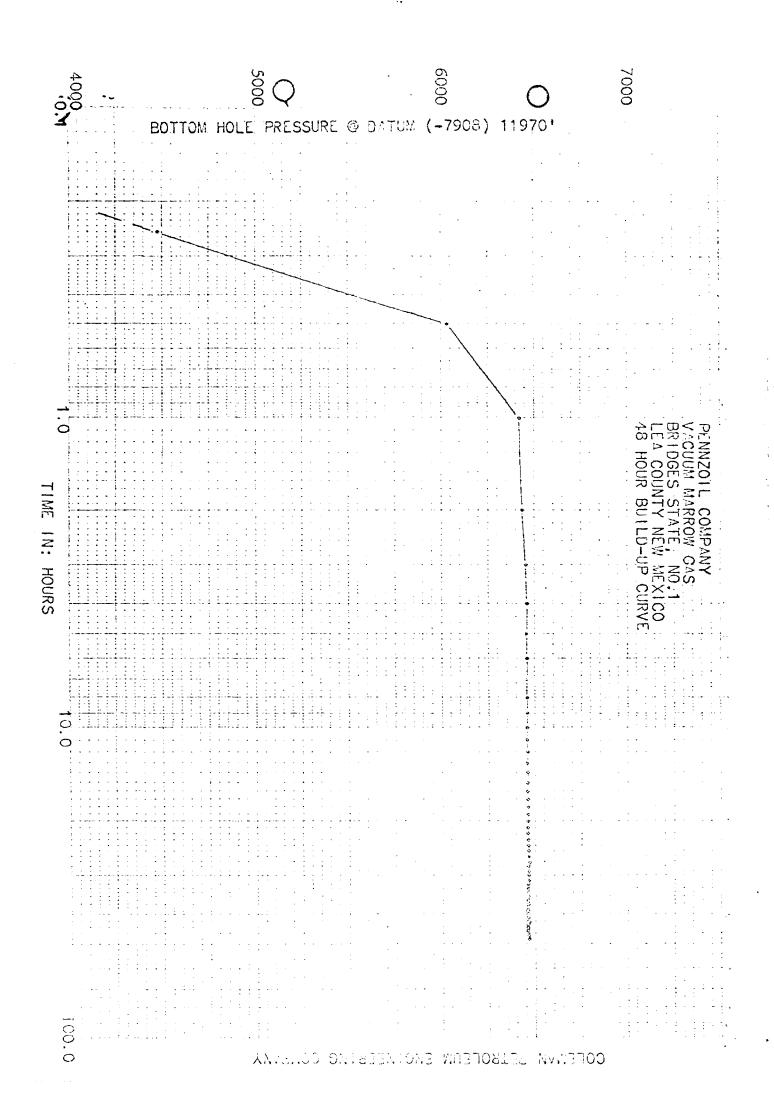
OIL CONSERVATION COMMISSION

CASE NO. \_\_\_\_\_\_

THE STATE OF THE S

	20012100	234		
OPERATOR PENNZOIL COMPANY				
FIELD VACUUM FORMALL		1:		Gradient
LEASE BRIDGES STATE N		0	1501	-
COUNTY LEA NAME		1000 .	1018	. 057
DATE 4-25-66 HMF	9:00 ] M	2000	1715	. 097
Status FLOWING ONTEST OF THE	11850'	4000	1839	. 062
10000 200 20/64 "CHilling in Figure	-	6000	2013	. 087
Tub Pres 1561 BHP Larvier	-	8000	2165	.078
Cas Pres. PKR BHP Charsen	_	10000	2329	. 032
Elev., 4062 KB Fland to	Surface	11350	2557	. 123
Datum (-7908)** Water top		11970(-7908)		(.123)
Temp. 4. 176°F Ran by	ALLMAN		TED PRESSURE	
Cal. No. A3131N Chart No.	. <b>i</b>	** MID POINT	OF CASING P	ERFORATIONS

)	1000	2000		3000	400
1000			11.00	***************************************	
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20:00				# 1	
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iiiii			4. 1. 1. 4. 1.		





STEAL MURICO

OPERATOR PENNZOLL COMPANY FIELD VACUUM COMMAND	A MARROW GAS	٠.		4
LEASE BRIDGES STATE W	. No. 1	G	4.559	-
COUNTY LEA SINE	NEW MEXICO	1000	47:6	.157
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CASE 3411: Application of SEC OPER-ATING for a waterflood project, Lea County, New Mexico