

CASE 3852: Application of MOBIL  
OIL CORPORATION FOR A TRIPLE  
COMPLETION, LEA COUNTY, N. MEX.

Case Number

3852

Application

Transcripts.

Small Exhibits

ETC.

GOVERNOR  
DAVID F. CARGO  
CHAIRMAN

State of New Mexico  
**Oil Conservation Commission**



LAND COMMISSIONER  
GUYTON B. HAYS  
MEMBER

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

P. O. BOX 2088  
SANTA FE

September 12, 1968

Mr. James E. Sperling  
Modrall, Seymour, Sperling, Roehl  
& Harris  
Attorneys at Law  
Public Service Building  
Albuquerque, New Mexico

Re: Case No. 3852  
Order No. R-3497  
Applicant:  
Mobil Oil Corporation

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.*  
A. L. PORTER, Jr.  
Secretary-Director

ALP/ir

Carbon copy of order also sent to:

Hobbs OCC x

Artesia OCC       

Aztec OCC       

Other \_\_\_\_\_

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

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

CASE No. 3852  
Order No. R-3497

APPLICATION OF MOBIL OIL CORPORATION  
FOR A TRIPLE COMPLETION, LEA COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 4, 1968,  
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 12th day of September, 1968, the Commission,  
a quorum being present, having considered the testimony, the record,  
and the recommendations of the Examiner, and being fully advised  
in the premises,

FINDS:

(1) That due public notice having been given as required by  
law, the Commission has jurisdiction of this cause and the subject  
matter thereof.

(2) That the applicant, Mobil Oil Corporation, seeks author-  
ity to complete its Bridges State Well No. 126, located in Unit J  
of Section 11, Township 17 South, Range 34 East, NMPM, Lea County,  
New Mexico, as a triple completion (conventional) to produce oil  
from the North Vacuum-Abo, Vacuum-Middle Pennsylvanian, and North  
Vacuum-Morrow Pools through parallel strings of 2 3/8-inch tubing,  
with separation of zones by packers set at approximately 10,500  
feet and 11,790 feet.

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

(4) That approval of the subject application will prevent  
waste and protect correlative rights.

-2-

CASE No. 3852  
Order No. R-3497

IT IS THEREFORE ORDERED:

(1) That the applicant, Mobil Oil Corporation, is hereby authorized to complete its Bridges State Well No. 126, located in Unit J of Section 11, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, as a triple completion (conventional) to produce oil from the North Vacuum-Abo, Vacuum-Middle Pennsylvanian, and North Vacuum-Morrow Pools through parallel strings of 2 3/8-inch tubing, with separation of zones by packers set at approximately 10,500 feet and 11,790 feet;

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the North Vacuum-Morrow Pool.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
DAVID F. CARGO, Chairman

GUYTON B. HAYS, Member

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

ear/

Case 3852  
Leard. 9-4-68  
Rec. 9-6-68

Grant Mobil permission Triple  
complete Shih Bridges St.  
Well #126:

North No Vacuum -  
Vacuum Middle Perm -  
North Vacuum Monow -

Each zone will be produced  
thru 2 $\frac{3}{8}$ " tubing. A tubing anchor  
set at 8653' (approx) + packers  
set at 10,500' + 11,720' approx.  
will effectively separate the  
3 zones.

Thud. H.

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

Form C-107  
5-1-61

Case 3852

Operator <b>Mobil Oil Corporation</b>		County <b>Lea</b>	Date <b>8-1-68</b>
Address <b>Box 633, Midland, Texas 79701</b>		Lease <b>Bridges State</b>	Well No. <b>126</b>
Location of Well <b>J</b>	Unit <b>11</b>	Township <b>17-S</b>	Range <b>34-E</b>

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES \_\_\_\_\_ NO X
2. If answer is yes, identify one such instance: Order No. \_\_\_\_\_ ; Operator Lease, and Well No.: \_\_\_\_\_

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Vacuum abo North	Vacuum Middle Penn	Vacuum Morrow North
b. Top and Bottom of Pay Section (Perforations)	8557-8606	10549-10620	11855-11932
c. Type of production (Oil or Gas)	Oil	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing

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

Yes	No	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

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

Gulf Oil Corporation P. O. Box 670, Hobbs, New Mexico 88240

Marathon Oil Company P. O. Box 220, Hobbs, New Mexico 88240

Pennzoil Company, Drawer 1828, Midland, Texas 79701

Yates Petroleum Company, 309 Carper Bldg. Artesia, New Mexico

Shell Oil Company, P. O. Box 1950, Hobbs, New Mexico

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO \_\_\_\_ . If answer is yes, give date of such notification August 5, 1968

CERTIFICATE: I, the undersigned, state that I am the Authorized Agent of the Mobil Oil Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

*J. J. McDaniel*  
Signature

\*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard perforation unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 4, 1968

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 3847: (Continued from the August 21, 1968, Examiner Hearing)

Application of K. K. Amini for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Bough "C" zone of the Pennsylvanian formation underlying the NE/4 of Section 5, Township 10 South, Range 34 East, Lea County, New Mexico. Said acreage to be dedicated to a well to be drilled in the SW/4 NE/4 of said Section 5, adjacent to the Vada-Pennsylvanian Pool.

CASE 3513: (Reopened)

In the matter of Case No. 3513 being reopened pursuant to the provisions of Order No. R-3179-A, which order established 160-acre spacing units and a 160-acre proportional factor of 4.77 for allowable purposes for the Vada-Pennsylvanian Pool, Lea County, New Mexico, for a period of one year. All interested parties may appear and show cause why the pool should not be developed on less than 160-acre spacing units and show cause why the 160-acre proportional factor of 4.77 should or should not be retained.

CASE 3849: Application of Penroc Oil Corporation for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Grayburg formation through its Phillips State Well No. 4 located in Unit I of Section 27, Township 17 South, Range 28 East, Artesia Pool, Eddy County, New Mexico.

CASE 3850: Application of Pan American Petroleum Corporation for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Bough (Permo-Pennsylvanian) formation in the interval from approximately 9590 feet to 9634 feet in its Federal "A" Well No. 3 located in Unit J of Section 13, Township 9 South, Range 35 East, Bough (Permo-Pennsylvanian) Pool, Lea County, New Mexico.

CASE 3851: Application of Mobil Oil Corporation for a waterflood expansion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its Bridges State Waterflood Project by the injection of water into the San Andres formation through an injection well recently completed at a location 660 feet from the South line and 560 feet from the West line of Section 24, Township 17 South, Range 34 East, Vacuum Pool, Lea County, New Mexico.

CASE 3852: Application of Mobil Oil Corporation for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the triple completion (conventional) of its Bridges State Well No. 126 located in Unit J of Section 11, Township 17 South,



Range 34 East, Lea County, New Mexico, in such a manner as to produce oil from the Abo, Middle Pennsylvanian and Morrow formations, Vacuum Field, through parallel strings of tubing.

CASE 3651: (Reopened)

In the matter of Case No. 3651 being reopened pursuant to the provisions of Order No. R-3315, which order created the North Morton Permo-Pennsylvanian Pool, Lea County, New Mexico, and established 80-acre spacing units for said pool for a period of one year. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing units.

CASE 3853: Application of Tenneco Oil Company for a waterflood expansion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the expansion of its Mesa Queen Waterflood Project, Mesa-Queen Pool, by the conversion to water injection of two additional wells located in the SW/4 NW/4 of Section 20 and the NW/4 SE/4 of Section 16, both in Township 16 South, Range 32 East, Lea County, New Mexico. Applicant further seeks an administrative procedure whereby said project could be expanded to include additional lands and injection wells as may be necessary to complete an efficient injection pattern.

CASE 3854: Application of Sinclair Oil & Gas Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates formation in the perforated interval from 3636 feet to 3700 feet in its Ballard DE Federal Well No. 6 located in Unit L of Section 22, Township 20 South, Range 34 East, Lynch Field, Lea County, New Mexico.

CASE 3431: (Reopened):

In the matter of Case No. 3431 being reopened pursuant to the provisions of Order No. R-3100-A to permit Sinclair Oil & Gas Company to show cause why its W. H. Turner Well No. 1 located in Unit L of Section 29, Township 21 South, Range 37 East, Lea County, New Mexico, a dual completion in the Drinkard and Blinbry Oil Pools, should not be completed in accordance with the provisions of Rule 112-A or the Commission Rules and Regulations.

CASE 3855: Application of Sunray DX Oil Company 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 Seven Rivers formation in the interval from approximately 3693 feet to 3733 feet in its H. D. Greer Well No. 1 located in Unit C of Section 21, Township 22 South, Range 36 East, South Eunice Pool, Lea County, New Mexico.

J. R. MODRALL  
JAMES E. SPERLING  
JOSEPH E. ROEHL  
GEORGE T. HARRIS, JR.  
DANIEL A. SISK  
LELAND S. SEDBERRY, JR.  
ALLEN C. DEWEY, JR.  
FRANK H. ALLEN, JR.  
JAMES P. SAUNDERS, JR.  
JAMES A. PARKER

HENRY G. COORS  
JOHN R. COONEY  
KENNETH L. HARRIGAN  
PETER J. ADANG  
DALE W. EK

LAW OFFICES OF  
MODRALL, SEYMOUR, SPERLING, ROEHL & HARRIS

PUBLIC SERVICE BUILDING

P. O. BOX 2158

ALBUQUERQUE, NEW MEXICO 87103

JOHN F. SIMMS (1885-1954)  
AUGUSTUS T. SEYMOUR  
(1907-1965)

TELEPHONE 243-4511  
AREA CODE 505

August 13, 1968

*Case 3852*

Mr. A. L. Porter, Jr.  
New Mexico Oil Conservation Commission  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: Application of Mobil Oil Corporation -  
Bridges State Well No. 126, Unit J,  
Section 11, Township 17 South, Range  
34 East, N.M.P.M.

30 AUG 14 1968

Dear Mr. Porter:

Enclosed herewith in triplicate are the following:

1. Form C-107, Application for Multiple Completion.
2. Diagrammatic Sketch of Multiple Completion showing casing strings, tubing strings, cement program, packers including types, depths and location with reference to perforations.
3. Plat showing location of wells on Applicant's lease and offset leases.
4. Electric Log of the Bridges State Well No. 126.

Listed in the Application are the offset operators to the Bridges State Lease together with their addresses. Copies of the Form C-107 were furnished to these offset operators as shown on the Application.

Please schedule the Application for examiner hearing as soon as possible.

Very truly yours,

*James E. Sperling*  
James E. Sperling

JES:jv  
Enclosures

cc: Mr. Ira B. Stitt  
Division Operations Engr.  
Mobil Oil Corporation  
P. O. Box 633  
Midland, Texas 79701

DOCKET MAILED

Date *8/22/68*

1120 SIMMAS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO

## EXAMINER HEARING

Application of Mobil Oil Corporation  
for a triple completion, Lea County,  
New Mexico.

BEFORE: Elvis A. Utz  
Examiner

TRANSCRIPT OF HEARING

MR. UTZ: Case 3852.

MR. HATCH: Case 3852. Application of Mobil Oil Corporation for a triple completion, Lea County, New Mexico.

MR. SPERLING: James E. Sperling, Modrall, Seymour, Sperling, Roehl and Harris, Albuquerque, appearing for the Applicant. We have one witness: Mr. Hart.

MR. UTZ: Are there any other appearances? Let the record show that this is the same Mr. Hart that was sworn in the last case, 3851.

You may proceed.

FRANK HART

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

DIRECT EXAMINATION

BY MR. SPERLING:

Q Mr. Hart, you are familiar with the application filed on behalf of Mobil in connection with this matter, are you not?

A I am.

Q What is sought by the application?

A We seek to have a triple completion authorized in Mobil's Bridges State Well Number 121.

Q Would you proceed with your testimony concerning the field, the pool in which this particular well is located and

give something of its history?

A Yes, sir.

MR. UTZ: Excuse me. Just a moment. Do you have these exhibits marked?

THE WITNESS: I have them marked, yes, sir.

MR. SPERLING: We'll mark them.

MR. UTZ: Just give me the stamp and I'll mark them while you're working.

(Whereupon, Applicant's Exhibits Numbers 1 through 8, inclusive, were marked for identification.)

A The Vacuum Abo North Pool in Lea County, New Mexico was discovered by Mobil's State Bridges Well Number 95 and presently has 36 wells completed in that zone, four of which are present; shut-in.

The Vacuum Middle Perm Pool was discovered by Mobil's Bridges State Well Number 121 and is presently producing through three wells.

The Vacuum Morrow North Pool in Lea County was discovered by Pennzoil Bridges State Well Number 1 and presently has two wells producing from that pool.

Mobil Oil Corporation's Bridges State Well Number 126 was spudded April 22nd, 1968 and completed as an oil-oil-oil flowing triple on June 19th, 1968.

Q That is the well that is subject to this application.

A That is correct.

Q Now, please refer to what has been marked as Exhibit Number 1 and explain the information shown thereon.

A Exhibit Number 1 is a map of the area showing the location of Mobil's Bridges State Well Number 126. Referring to Exhibit 1, Bridges State Well Number 126 is a Vacuum Abo North, Vacuum Middle Penn and Vacuum Morrow North triple completion, located on Bridges State Lease in Unit J, Section 11, Township 17 South, Range 34 East of Lea County, New Mexico.

Color coded on the map are all wells which are multiply completed in the Abo or deeper zones. Wells completed at more shallow depths are not color coded, but for informational purposes, have been -- have their completion interval marked on the map.

Q Now, the well in question is shown by the red arrow approximately in the center of the exhibit, is that right?

A That is correct, sir.

Q Is there anything else to add with reference to Exhibit 1 at this time?

A No, sir.

Q Please refer to Exhibit Number 2 and explain its purpose.

A Exhibit Number 2 is an application for multiple completion, New Mexico Oil Conservation Commission's Form 107, dated August 1, 1968, filed with the Commission on August 13th, 1968.

Referring to Exhibit 2, the upper zone in the Bridges State 126 is the Vacuum Abo North located at a depth of 8,557 feet to 8,606 feet and completed as a flowing oil well. The middle zone is the Vacuum Middle Penn located at a depth of 10,549 feet, 10,620 feet and completed as a flowing oil well.

The lower zone is the Vacuum Morrow North located at a depth of 11,855 feet to 11,932 feet and completed as a flowing oil well.

Item Number 5 on Exhibit Number 2 is a list of all the offset operators. These listed operators were notified of Mobil's application for multiple completing Bridges State Well Number 126 by receiving a copy of this application.

Q Now, please refer to Exhibit Number 3 and explain the information contained on that exhibit.

A Yes, sir. Exhibit Number 3 is a diagrammatic well bore sketch of Mobil's Bridges State Well Number 126. Referring to Exhibit 3, the well was drilled to a depth of 12,046 feet and plugged back to a depth of 12,004 feet. Thirteen and three-eighths inch 48-pound casing was set to a depth of 355 feet and cement circulated to the surface. Nine and five-eighths inch,

36 and 40-pound casing was set to a depth of 4,980 feet and cemented with 2700 sacks of cement. Top of cement was located by a temperature survey at 670 feet.

Seven inch S-95 an NAE liner was set from 4852 feet to 12,045 feet and cemented to the top of the liner with 1500 sacks of cement. Considering the amount of cement and the position of the top of the cement sheet, it is Mobil's opinion that the annulus form between the wall of the well bore and the casing is sealed and will prevent migration of fluid there through.

The Abo Formation was thereafter opened into the well bore by perforating a seven inch liner with 24 holes at an interval of 8,557 feet to 8,606 feet. The Middle Penn was perforated with 24 holes at an interval of 11,855 feet, 11,932 feet. Gyeberson triple anchor was set at 8,653 feet. A Gyeberson RH-2 dual factor was set at 10,500 feet, and a Gyeberson type paid -- permanent packer was set at 11,790 feet. Two and three-eighths inch production tubing was installed to surface each zone.

Q Now, refer to Exhibit Number 4.

A Exhibit Number 4 is a notarized affidavit signed by Mr. R. B. Mercer attesting to the packer setting depths as previously described.



Q Exhibit Number 5.

A Exhibit Number 5 is a PGAC Electric Log of Mobil's Bridges State Well Number 126. The tops of each formation and the perforated intervals have been marked on this log. Referring to the log, it can be seen that three perforated intervals in this well have substantial vertical separation and are not considered to be in communication within the matrix.

Q Now, refer to Exhibit Number 6. Explain the information contained on that exhibit.

A Exhibit Number 6 consists of copies of pressure readings taken on Mobil's Bridges State Number 126 during packer leakage tests. These tests revealed that there is no communication between the separate zones within the well bore.

Q And what is Exhibit Number 7?

A Exhibit Number 7 is a data sheet showing production and well characteristic tests of the Vacuum Abo North, Vacuum Middle Penn, Vacuum Morrow North Formations of Bridges State Well Number 126.

Q Exhibit Number 8?

A Exhibit Number 8 is a list of stimulation treatments performed on Bridges State Well Number 126.

Q Now, from the information contained in the exhibit as described by you and by reference to the information contained

in those exhibits, is it your opinion, as presently completed, this well is completed without commingling of any fluids as between the separate formations?

A That is correct.

Q In what manner, if any, can reservoir pressures be ascertained with reference to the separate reservoir?

A The well is also equipped so the reservoir pressure may be determined for each separate producing strata. A triple head, and separate producing equipment, are connected to the well in order that gas, gas and oil, and oil from each of the separate strata may be accurately measured and the gas-oil ratio determined.

Q Has authority been previously requested from the Commission with reference to this well? If so, in what manner?

A Mobil has permission to dually complete Bridges State Number 126 as the Abo Middle Penn Dual. The Abo and Middle Penn are presently being produced under this authority.

The Morrow Zone in this well is closed in.

Q Do you have anything further to add?

A Mobil respectfully requests that the New Mexico Conservation Commission grant approval to Mobil's application for a multiple completion of Bridges State Well 126.

MR. SPERLING: At this time, Mr. Examiner, I'd like to offer Exhibits 1 through 8.

MR. UTZ: Without objection, Exhibits 1 through 8 will be entered into the record in this case.

(Whereupon, Applicant's Exhibits 1 through 8, inclusive, were admitted in evidence.)

MR. SPERLING: That's all we have on direct, Mr. Examiner.

CROSS EXAMINATION

BY MR. UTZ:

Q Have you tried anything below the Morrow?

A Not to my knowledge, no; we might have a -- Do you know?

Mr. Busch says down south, we have tried the Devonian.

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

The witness may be excused. Any statements in this case?

We'll take it under advisement.

I N D E X

<u>WITNESS</u>	<u>PAGE</u>
Frank Hart	
Direct Examination by Mr. Sperling	2
Cross Examination by Mr. Utz	9

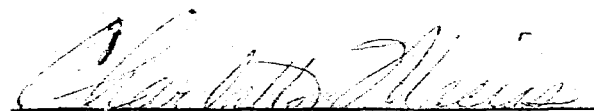
E X H I B I T S

<u>Number</u>	<u>Marked for Identification</u>	<u>Received in Evidence</u>
Applicant's Exhibits 1 through 8	3	9

STATE OF NEW MEXICO )  
 ) ss.  
 COUNTY OF BERNALILLO )

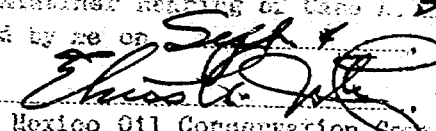
I, CHARLOTTE MACIAS, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings,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

Witness my Hand and Seal this 2nd day of October, 1968.

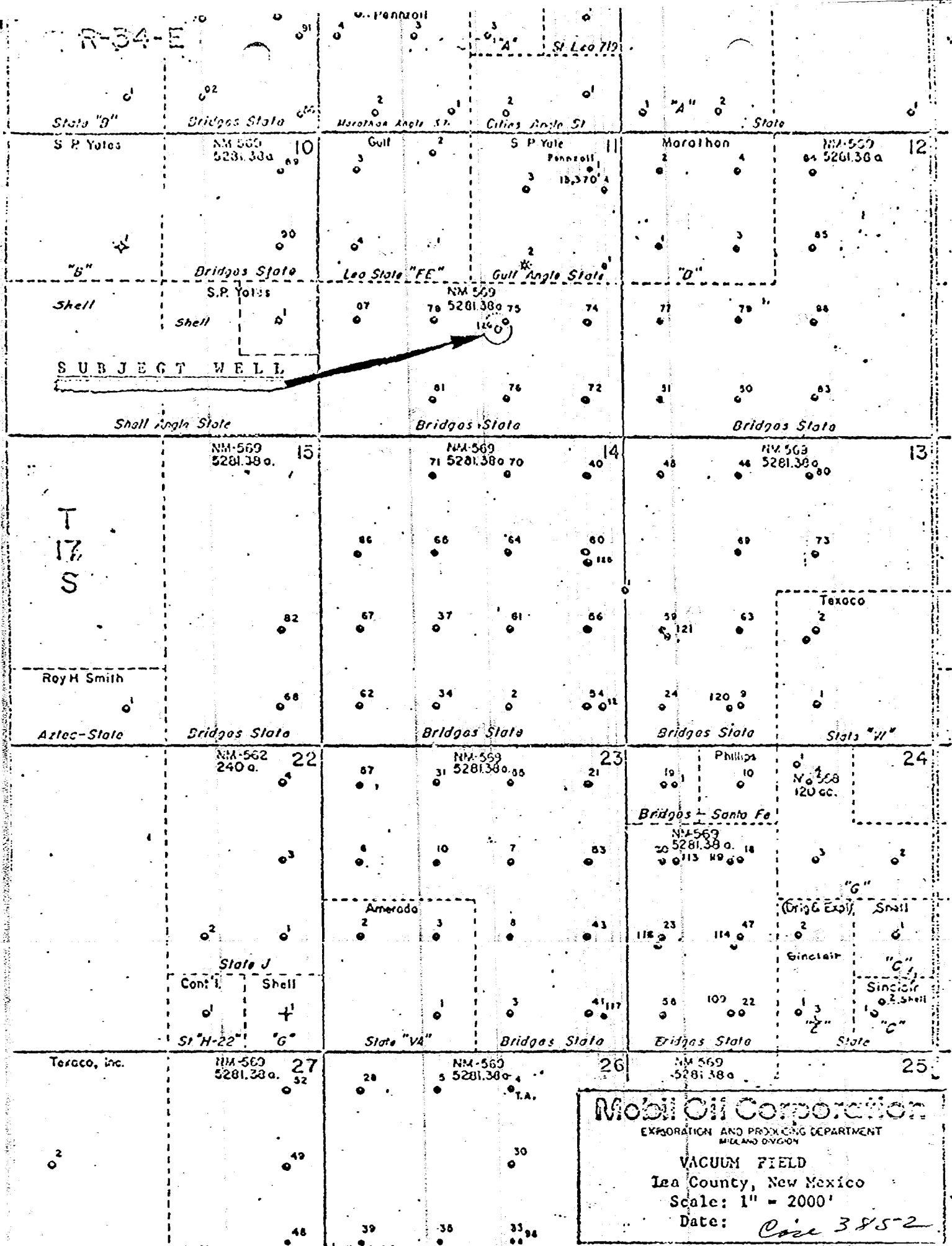
  
 Notary Public

My Commission Expires:

February 10, 1971.

I do hereby certify that the foregoing is a complete record of the proceedings in the hearing of case A. 8852, held by me on Sept 4, 1968.  
  
 New Mexico Oil Conservation Commission

R-34-E



**Mobil Oil Corporation**  
 EXPLORATION AND PRODUCTION DEPARTMENT  
 MIDLAND DIVISION  
 VACUUM FIELD  
 Lea County, New Mexico  
 Scale: 1" = 2000'  
 Date: *Case 3852*

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

MOBIL OIL CORPORATION  
MIDLAND E & P DIVISION

Exhibit No. 2  
Case No. 3852  
Date 9-4-68

Operator <b>Mobil Oil Corporation</b>		County <b>Lea</b>	Date <b>8-1-68</b>
Address <b>Box 633, Midland, Texas 79701</b>		Lease <b>Bridges State</b>	Well No. <b>126</b>
Location of Well <b>J</b>	Unit <b>11</b>	Township <b>17-S</b>	Range <b>34-E</b>

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES \_\_\_\_\_ NO X
2. If answer is yes, identify one such instance: Order No. \_\_\_\_\_; Operator Lease, and Well No.: \_\_\_\_\_

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation:	<b>Vacuum abo North</b>	<b>Vacuum Middle Penn</b>	<b>Vacuum Morrow North</b>
b. Top and Bottom of Pay Section (Perforations)	<b>8557-8606</b>	<b>10549-10620</b>	<b>11855-11932</b>
c. Type of production (Oil or Gas)	<b>Oil</b>	<b>Oil</b>	<b>Oil</b>
d. Method of Production (Flowing or Artificial Lift)	<b>Flowing</b>	<b>Flowing</b>	<b>Flowing</b>

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

- |                                     |                          |   |
|-------------------------------------|--------------------------|---|
| Yes                                 | No                       |   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)   |

5. List all offset operators to the lease on which this well is located together with their correct mailing addresses:
- Gulf Oil Corporation P. O. Box 670, Hobbs, New Mexico 88240**
- Marathon Oil Company P. O. Box 220, Hobbs, New Mexico 88240**
- Pennzoil Company, Drawer 1828, Midland, Texas 79701**
- Yates Petroleum Company, 309 Carper Bldg. Artesia, New Mexico**
- Shell Oil Company, P. O. Box 1950, Hobbs, New Mexico**

6. Were all operators listed in item 5 above notified and furnished a copy of this application? YES X NO \_\_\_\_\_. If answer is yes, give date of such notification **August 5, 1968**.

CERTIFICATE: I, the undersigned, state that I am the **Authorized Agent** of the **Mobil Oil Corporation** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

*[Signature]*  
Signature

\*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

Diagrammatic Well Sketch  
Bridges State Well No. 126  
Vacuum (Abo, Middle Penn & Morrow) Fields  
Lee County, New Mexico

13 3/8" - 48' FE. 440 set w/ 3255x  
 CIRC.  
 Min. Burst Press = 1730 Psi

MOBIL OIL CORPORATION  
 MIDLAND E & P DIVISION

Exhibit No. 3  
 Case No. 3852  
 Date 9-4-68  
355'

BEFORE EXAMINER UTZ

CONSERVATION OF

EXHIBIT NO. 3

USE NO. 3852

9 5/8" - 36 & 40' FE. 465 set w/ 2700x  
 Top Cnt = 670'

Min. Burst Press = 3520 Psi

Guiberson triple anchor  
 nbo 2 3/8" GST tubing

4980'  
Abo Perforations  
8,557' - 8,606' w/ 1 USPF  
total 24 holes  
8,653'

Guiberson RH2 dual packer  
 2 3/8" CS Hydriil middle penn tbg

10,500'  
Middle Penn. Perforations  
10,549' - 10,620' w/ 1 USPF  
total 24 holes

Guiberson Type "A" packer  
 2 3/8" N-80 Morrow tbg

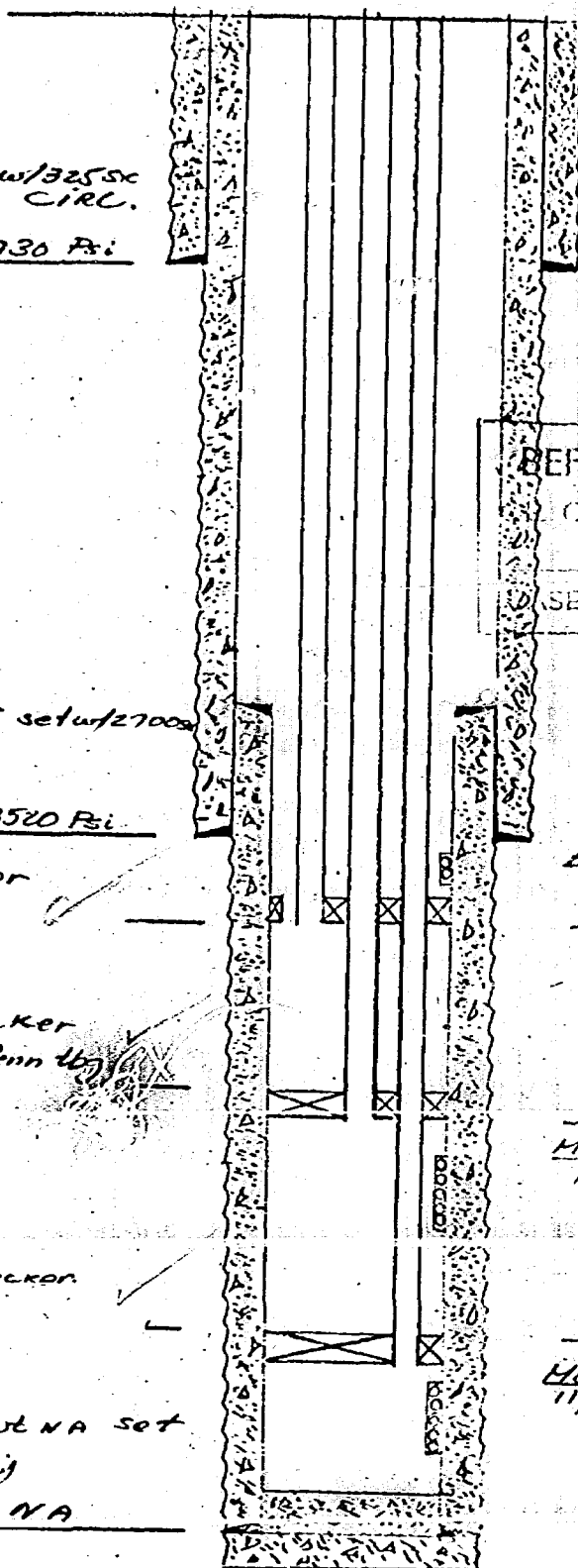
11,790'  
Morrow Perforations  
11,855' - 11,932' w/ 1 USPF  
total 27 holes

7193' of  
 7" Liner - 595 & N-80 w/ NA set  
 w/ 1500 SC cut circ.

Min. Burst Press = NA

12,004' - P.B.T.D.  
12,045'  
12,046' - T.D.

8/2/68  
 (WJ)





Dated - 8-8-68

I, R.B. Mercer certify that packers were installed and tested as per installment plan attached.

R.B. Mercer

William Levey Jr  
Notary Lea Co. N.M.

11-30-71

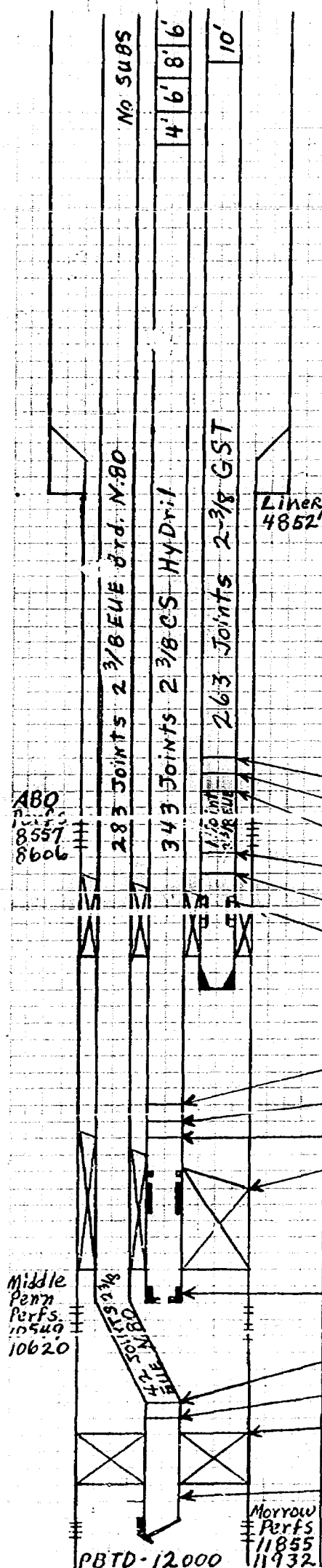
MOBIL OIL CORPORATION  
MIDLAND E & P DIVISION

Exhibit No. 4  
Case No. 3852  
Date 9-4-68

BEFORE EXAMINER  
OIL CONSERVATION COMMISSION  
EXHIBIT NO. 4

# Packer Installation Plan

K.B.- 13' above G.L.



Prepared For <b>MR. George Huff</b>		Company <b>Mobil Oil Corporation</b>		Date <b>7-23-68</b>		
Lease <b>State Bridges</b>	Well No. <b>126</b>	Field <b>Buckeye</b>	Co. or Parish <b>Ion</b>	State <b>N.H.</b>	<input checked="" type="checkbox"/> New Completion <input type="checkbox"/> Workover	
CASING	Size <b>9-5/8</b>	Weight	Grade	Thread	Depth	
LINER	Size <b>7"</b>	Weight <b>23#</b>	Grade	Thread	Depth <b>4852 to TD</b>	
TUBING	FIRST STRING	Size <b>2-3/8 EUE</b>	Weight <b>4.7</b>	Grade <b>N.00</b>	Thread <b>8rd</b>	Depth <b>11,790'</b>
	SECOND STRING	Size <b>2-3/8 Hydril</b>	Weight <b>4.7</b>	Grade	Thread <b>CS</b>	Depth <b>10,500'</b>
	THIRD STRING	Size <b>2-3/8</b>	Weight <b>4.7</b>	Grade	Thread <b>GST</b>	Depth <b>8,653'</b>
PART NUMBER		DESCRIPTION			ESTIMATE	
<b>WELL HEAD INSTALLATION</b>						
Change over from 2-3/8 EUE 8rd to 2-3/8 GST						
1-25/32 ID Setting Nipple at 8611'						
One joint 2-3/8 EUE 8rd. Tubing at 8615'						
3'x2-3/8 EUE Perforated Sub at 8614'						
Stinger 1/2" x 2-1/4" x 2-1/4" Perforated Anchor						
Guiberson Special made Quad anchor with 5/8" x 2-1/4" x 2-1/4"						
stinger. Has one inch pipe stinger (NUE) w/ 13,000# tension set at 8653'						
Change over from 2-3/8 EUE 8rd to 2-3/8 CS Hydril						
1-25/32 Setting Nipple at						
"J" Latch Secondary Stinger with 13,000# Tension						
Guiberson 7" 22-26# x 2-3/8 x 2-3/8 RH-2 Packer w/ Threaded Primary and "J" Latch Secondary set at 10,500'						
Serial no. 130-11712 TOTAL ESTIMATE						
Completion Procedure						
1-3/4" ID Setting Nipple with 1 1/2" ID Stop Ring in Bottom						
1-25/32 Setting Nipple at 11,788						
Guiberson "EL" Stinger Latched in with 12,000# Tension						
Guiberson Type "A" Drillable Packer-7" 20-24# x 3.5 ID with one "AI" Seal Nipple at 11,790'						
5' Guiberson Lead in Sub						
Prepared By <b>RB Merew</b>		Guiberson Warehouse <b>Hobbs, N.H.</b>		Telephone <b>393-7174</b>	DT No. <b>4140, 4141</b>	

NEW MEXICO OIL CONSERVATION COMMISSION  
SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator MOBIL OIL CORPORATION			Lease Bridges State			Well No. 126	
Location of Well	Unit	Sec	Twp	Rge	County		
	Name of Reservoir or Pool		Type of Prod (Oil or Gas)	Method of Prod Flow, Art Lift	Prod. Medium (Tbg or Csg)	Choke Size	
Upper Compl	Vacuum Abo - North		Oil	Flow	Tbg	24/64	
Lower Compl	Vacuum Morrow		Oil	Flow	Tbg	32/64	
Middle Compl.	Vacuum Middle Penn		Oil	Flow	Tbg	24/64	

Flow TEST NO. 1

All zones shut-in at (hour, date): 2:00 p.m. 8-7-68

Well opened at (hour, date): 2:00 p.m. 8-8-68

	Middle Completion	Upper Completion	Lower Completion
Indicate by ( X ) the zone producing.....			X
Pressure at beginning of test.....	1612	1220	1750
Stabilized? (Yes or No).....	Yes	Yes	Yes
Maximum pressure during test.....	1785	1250	1750
Minimum pressure during test.....	1612	1220	0
Pressure at conclusion of test.....	1785	1220	0
Pressure change during test (Maximum minus Minimum).....	173		1750
Was pressure change an increase or a decrease?.....	Increase	Increase	Decrease
Well closed at (hour, date): 2:00 p.m. 8-9-68	Total Time On Production	24	
Oil Production	Gas Production		
During Test: 0 bbls; Grav. 0	During Test: -	MCF; GOR	
Remarks: Morrow well dead after 3 hrs.			

FLOW TEST NO. 2

	Middle Completion	Upper Completion	Lower Completion
Well opened at (hour, date): 2:00 p.m. 8-10-68			
Indicate by ( X ) the zone producing.....	X		
Pressure at beginning of test.....	1890	1260	1280
Stabilized? (Yes or No).....	yes	yes	yes
Maximum pressure during test.....	1890	1260	1660
Minimum pressure during test.....	700	1260	1280
Pressure at conclusion of test.....	700	1260	1660
Pressure change during test (Maximum minus Minimum).....	1190	0	380
Was pressure change an increase or a decrease?.....	Decrease	same	Increase
Well closed at (hour, date) 2:00 p.m. 8-11-68	Total time on Production	24 hrs	
Oil Production	Gas Production		
During Test: 347 bbls; Grav. 40.5 @ 60°	During Test: 577.7	MCF; GOR	1665/1
Remarks: Pressure decline on last flow tests attributed to possible temperature effects from			

open annulus with upper completion. Head was checked w/5000 psi and held OK

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved \_\_\_\_\_ 19  
New Mexico Oil Conservation Commission

By \_\_\_\_\_  
Title \_\_\_\_\_

Operator MOBIL OIL CORPORATION

By Joseph C. Jordan, Jr.  
Title Associate Engineer

Date August 26, 1968

NEW MEXICO OIL CONSERVATION COMMISSION  
SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator			Lease			Well No.		
Location of Well	Unit	Sec	Twp	Rge	County			
Name of Reservoir or Pool			Type of Prod (Oil or Gas)	Method of Prod Flow, Art Lift	Prod. Medium (Tbg or Csg)		Choke Size	
Upper Compl								
Lower Compl								

FLOW TEST NO. X 3

Both zones shut-in at (hour, date): 2:00 p.m. 8-12-68

Well opened at (hour, date): \_\_\_\_\_

	Middle Completion	Upper Completion	Lower Completion
Indicate by ( X ) the zone producing.....			
Pressure at beginning of test.....			
Stabilized? (Yes or No).....			
Maximum pressure during test.....			
Minimum pressure during test.....			
Pressure at conclusion of test.....			
Pressure change during test (Maximum minus Minimum).....			
Was pressure change an increase or a decrease?.....			
Well closed at (hour, date): _____	Total Time On Production _____		
Oil Production _____	Gas Production _____		
During Test: _____ bbls; Grav. _____	During Test _____ MCF; GOR _____		
Remarks _____			

Bridges State 126

FLOW TEST NO. X 3

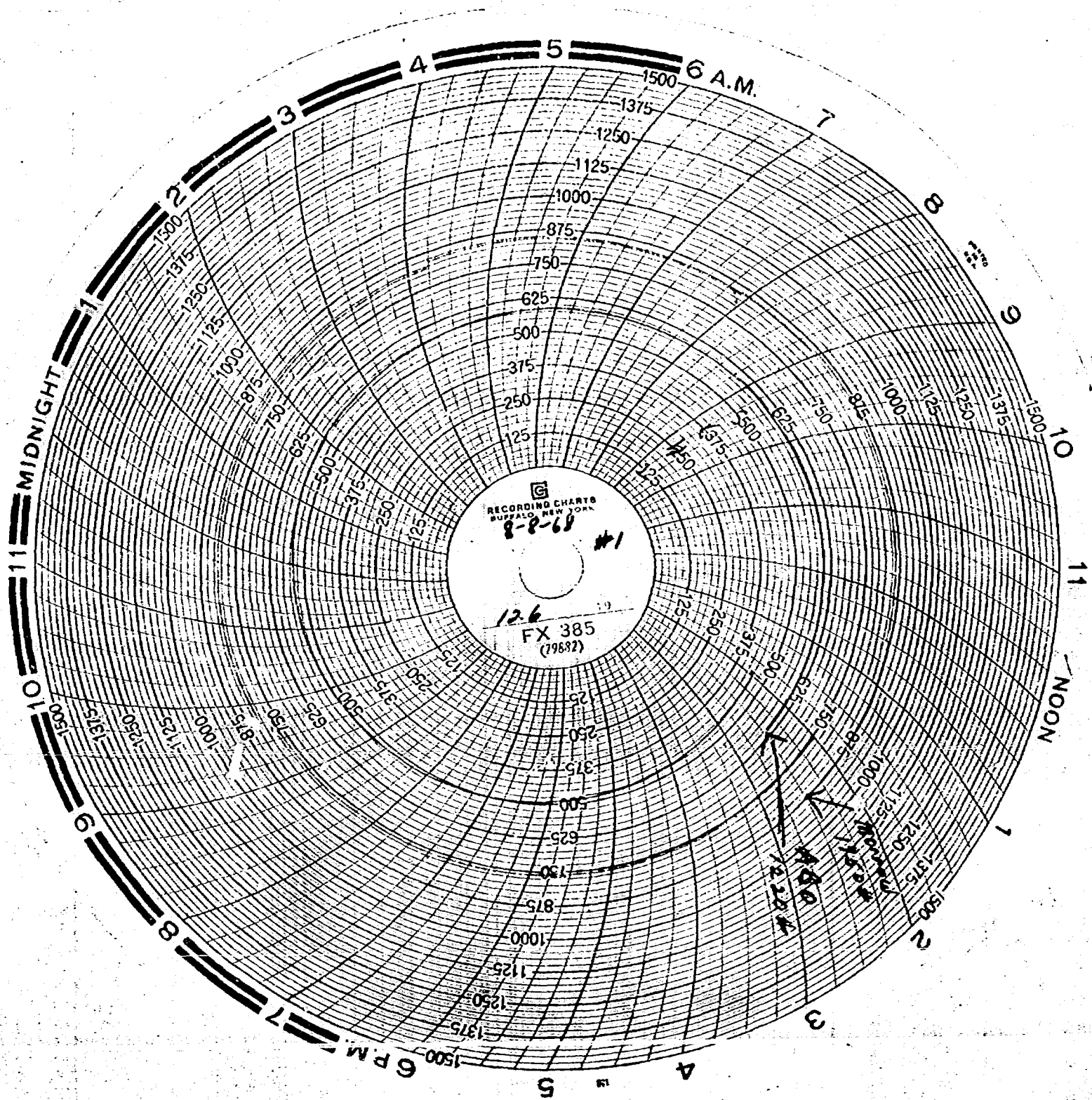
	Middle completion	Upper Completion	Lower Completion
Well opened at (hour, date): <u>2:00 p.m. 8-12-68</u>			
Indicate by ( X ) the zone producing.....		X	
Pressure at beginning of test.....	1700	1260	1840
Stabilized? (Yes or No).....	yes	yes	yes
Maximum pressure during test.....	1700	1260	1840
Minimum pressure during test.....	1400	640	1650
Pressure at conclusion of test.....	1400	640	1650
Pressure change during test (Maximum minus Minimum).....	300	620	190
Was pressure change an increase or a decrease?.....	Decrease	Decrease	Decrease
Well closed at (hour, date) <u>2:00 p.m. 8-13-68</u>	Total time on Production <u>24 hrs</u>		
Oil Production _____	Gas Production _____		
During Test: <u>410</u> bbls; Grav. <u>43 @ 80°</u>	During Test <u>918.4</u> MCF; GOR <u>2240/1</u>		
Remarks _____			

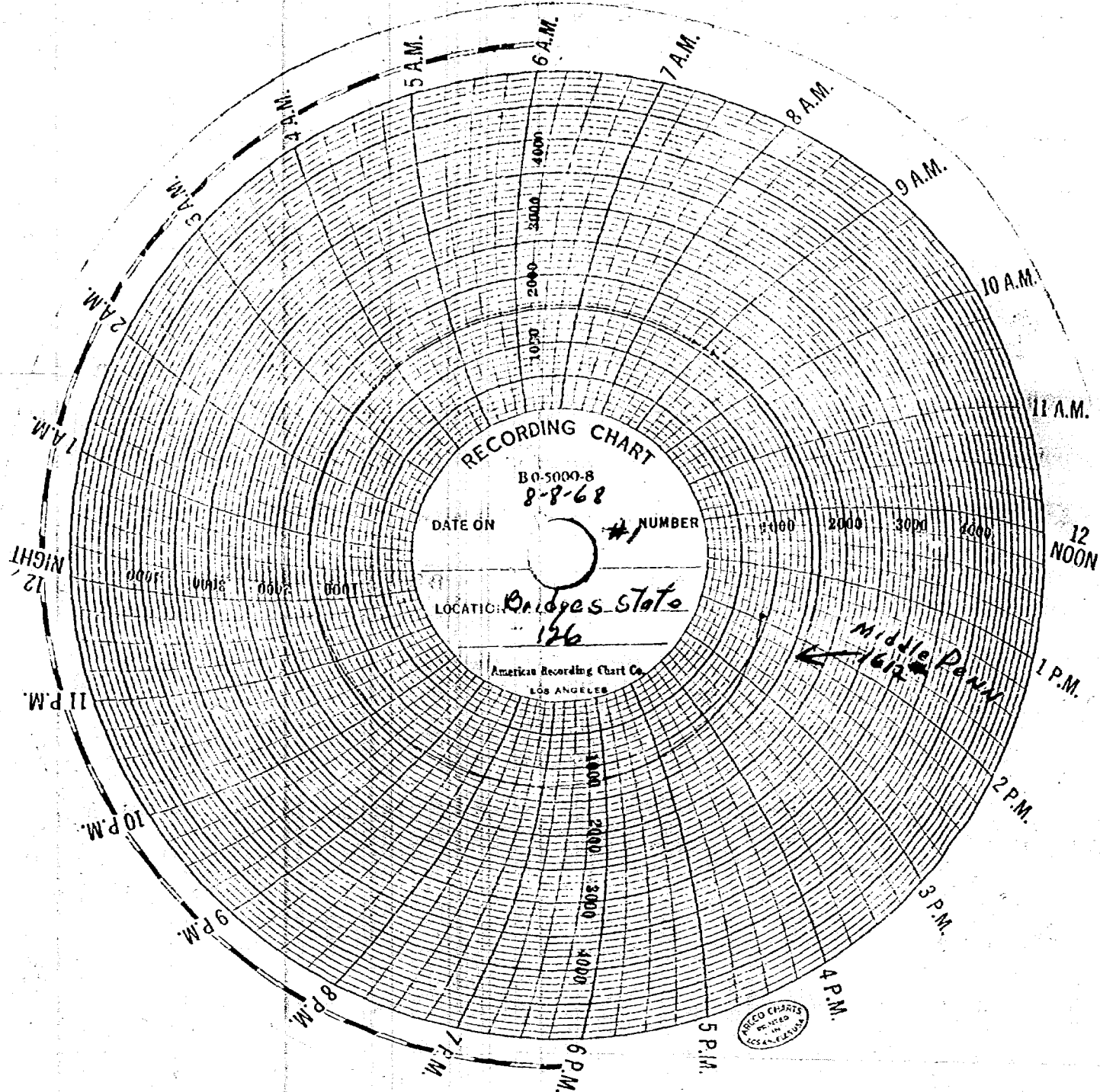
I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved \_\_\_\_\_ 19  
New Mexico Oil Conservation Commission

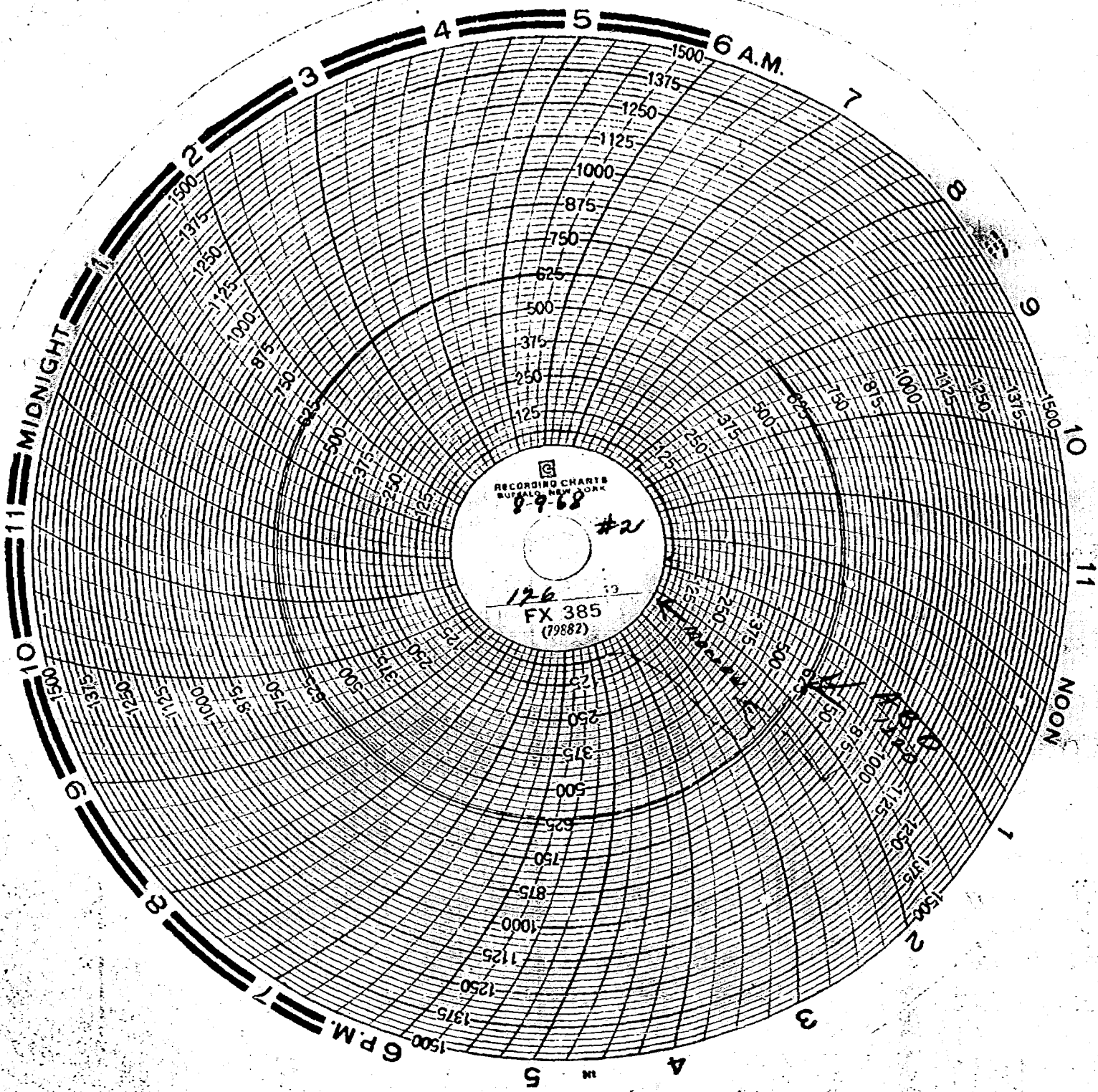
By \_\_\_\_\_  
Title \_\_\_\_\_

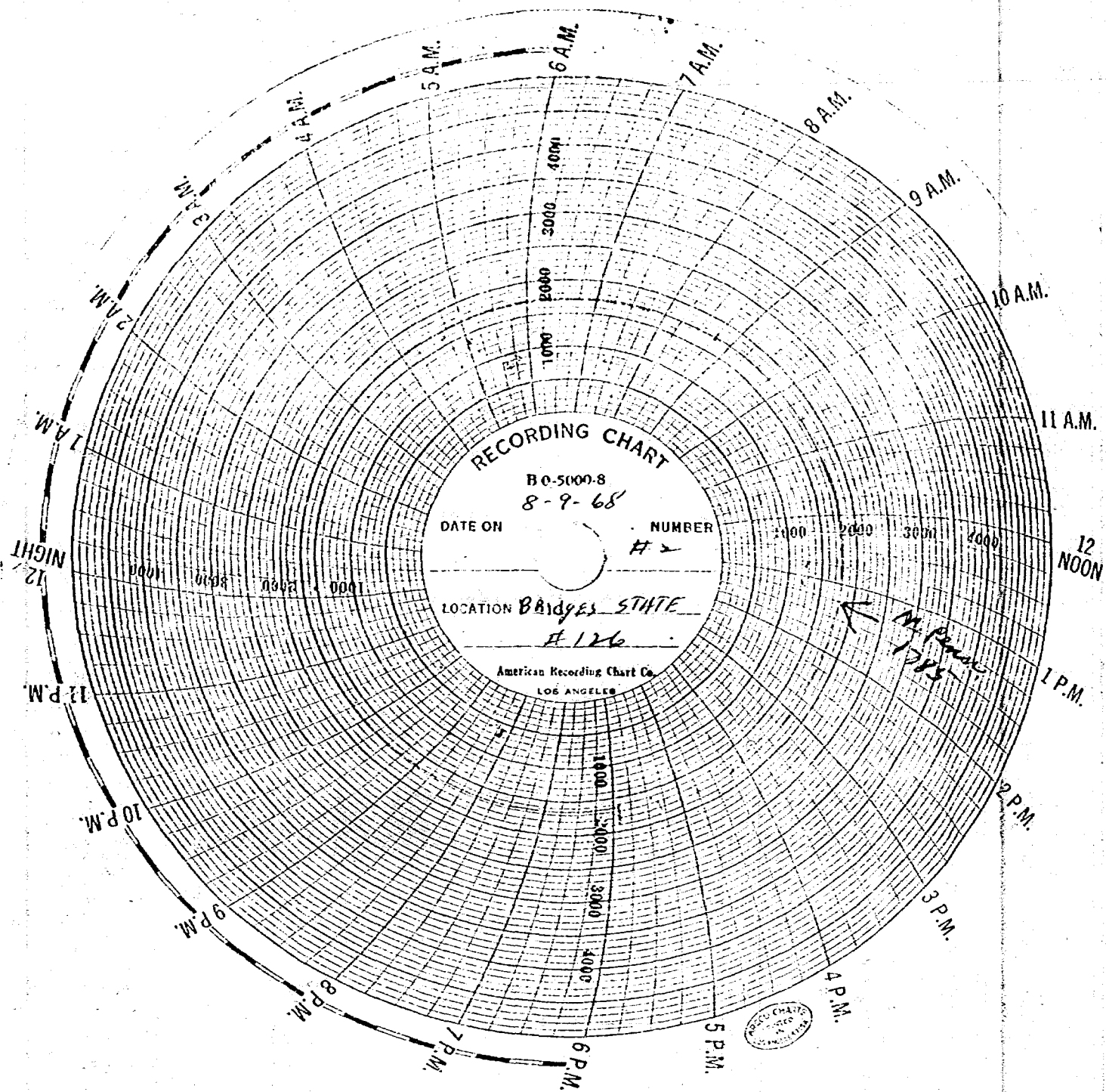
Operator MOBIL OIL CORPORATION  
By Joseph C. Jordan, Jr.  
Title Associate Engineer  
Date August 26, 1968



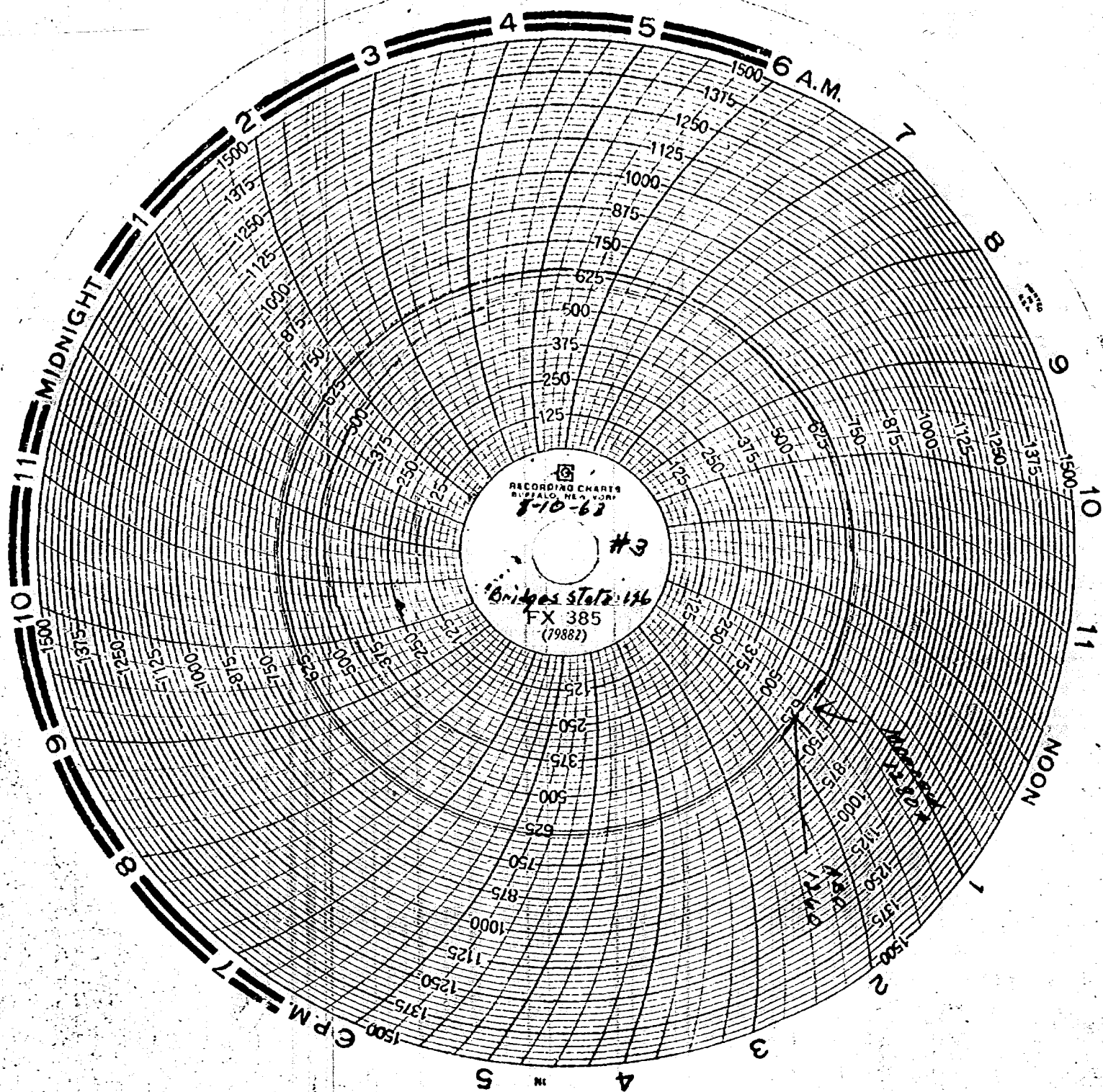


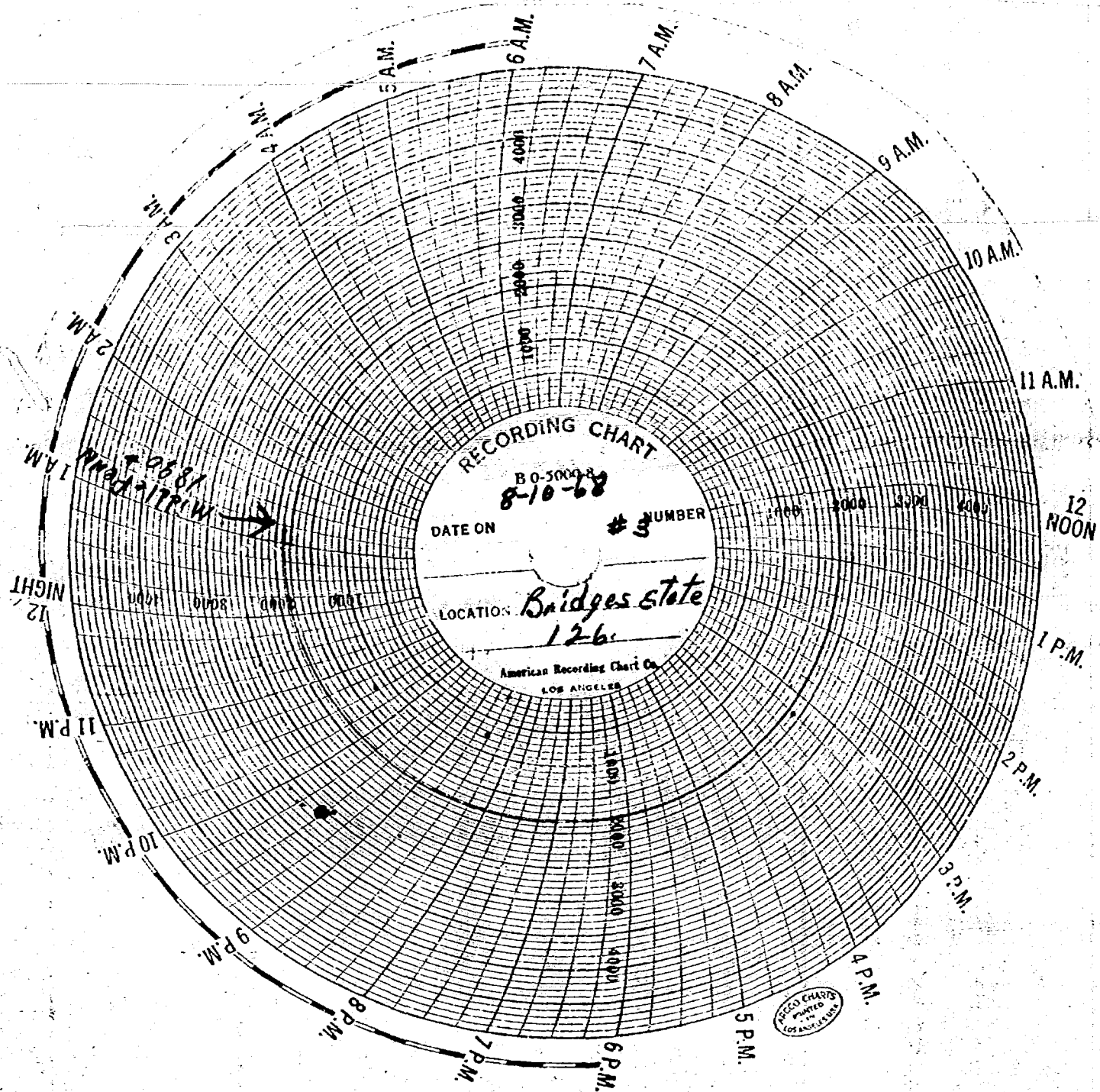


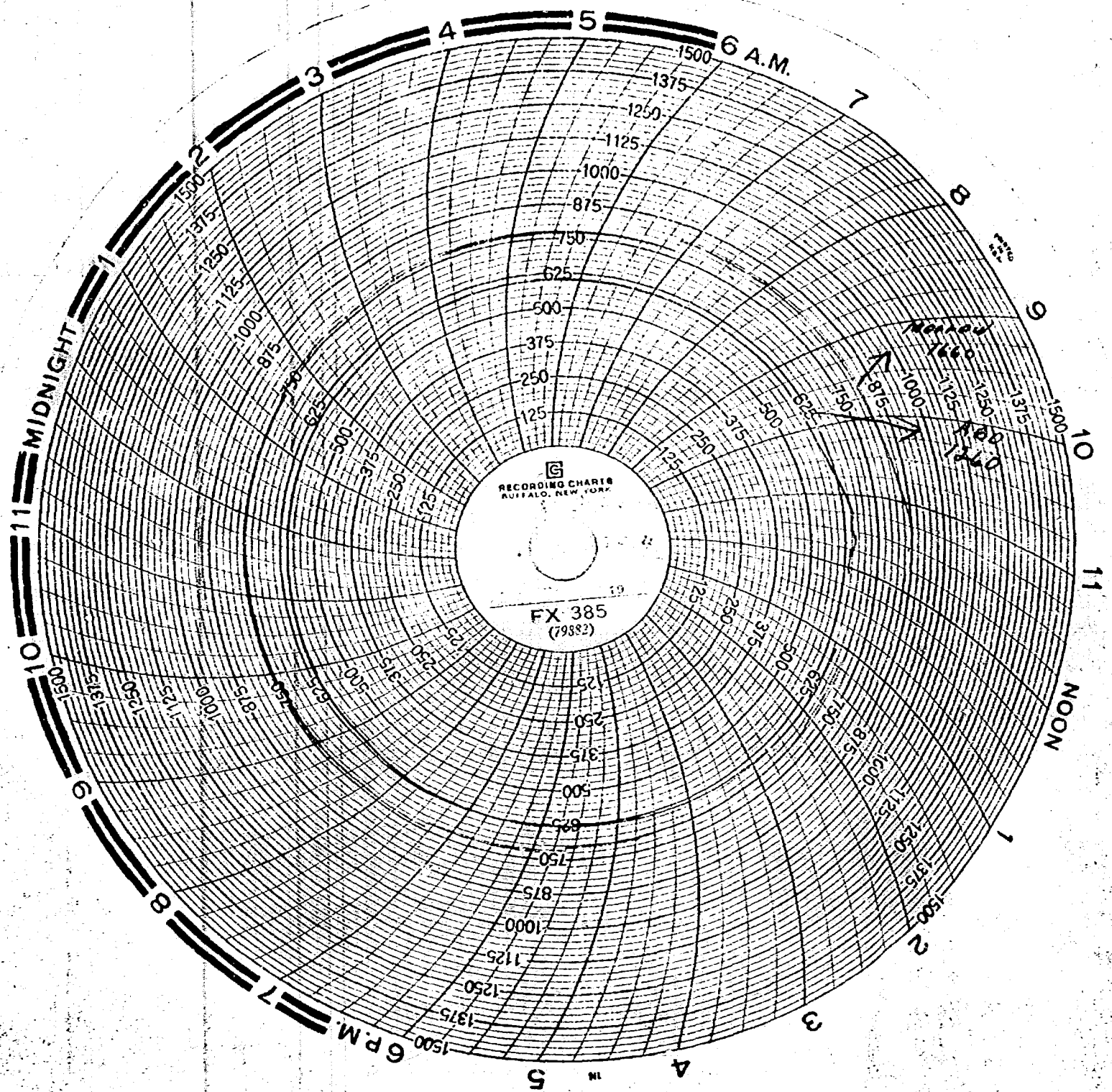


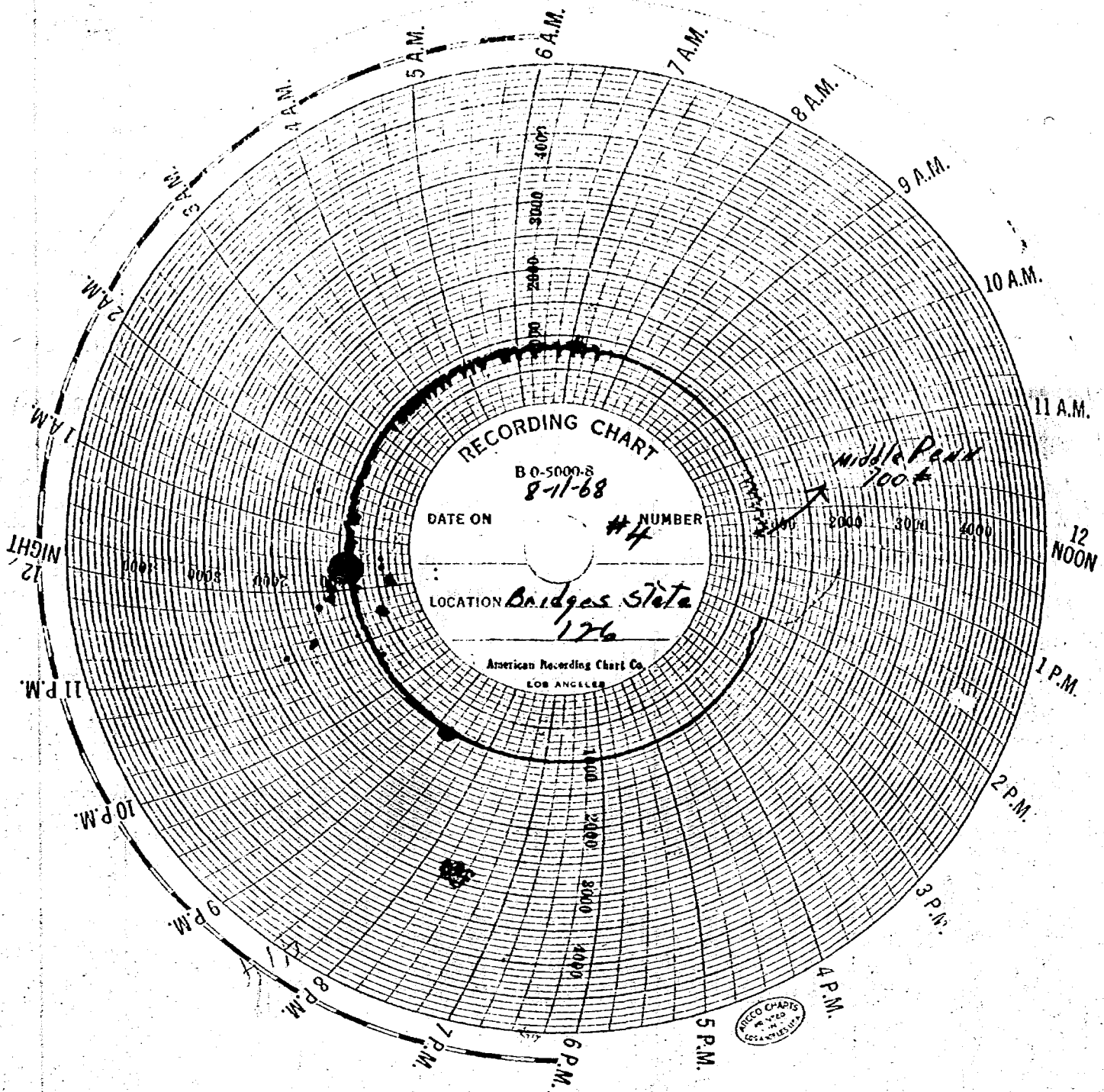




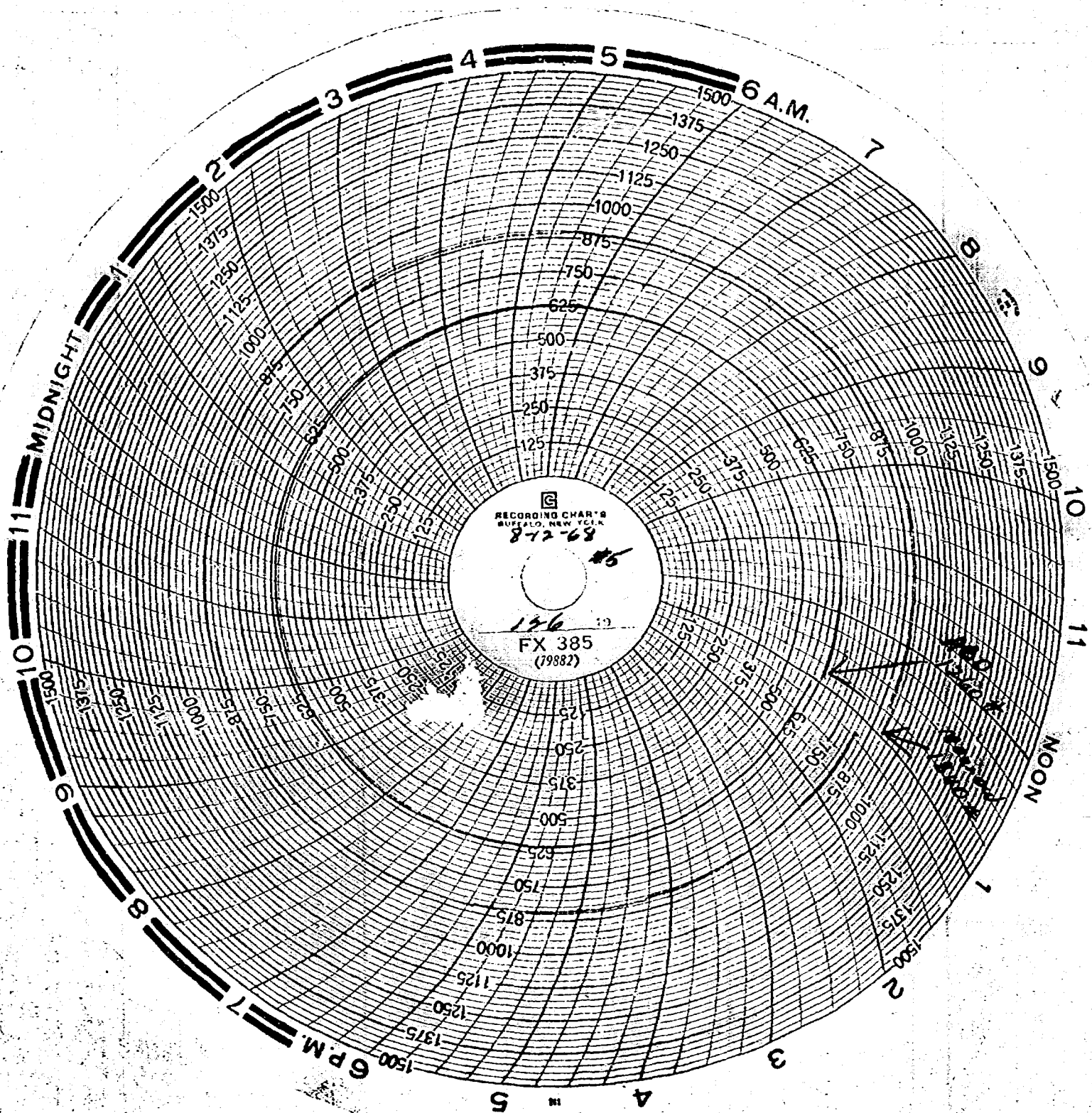


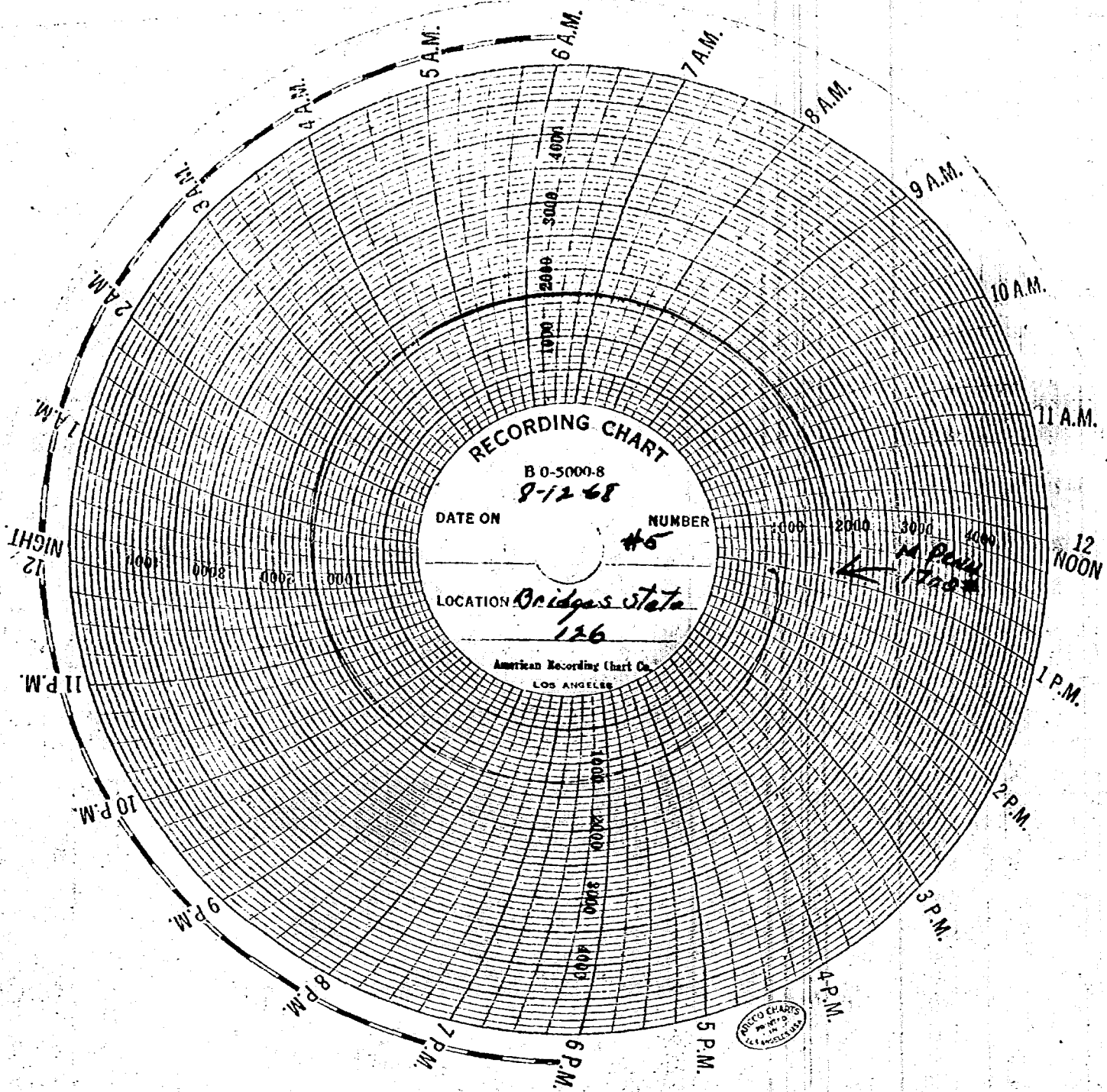


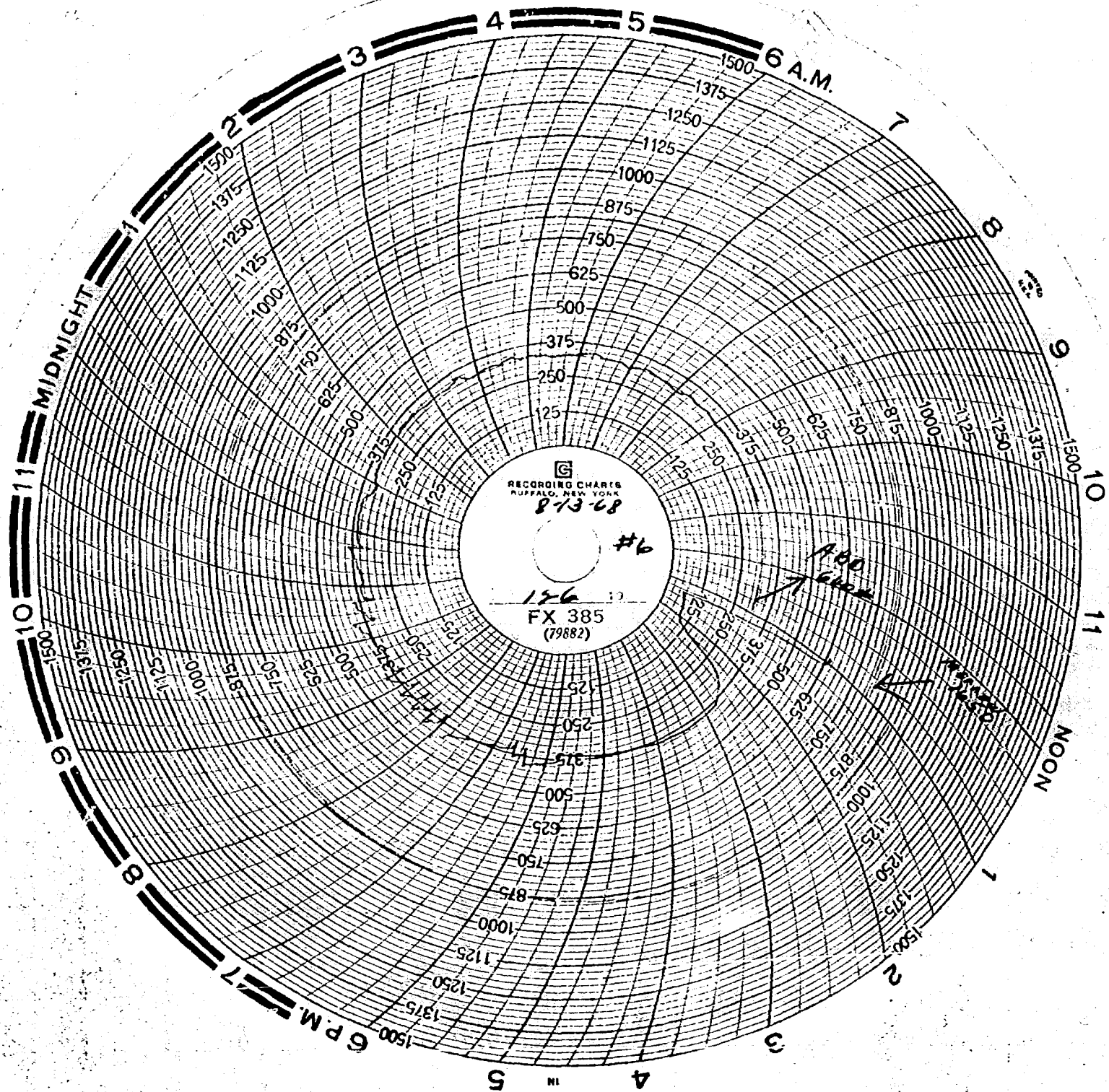


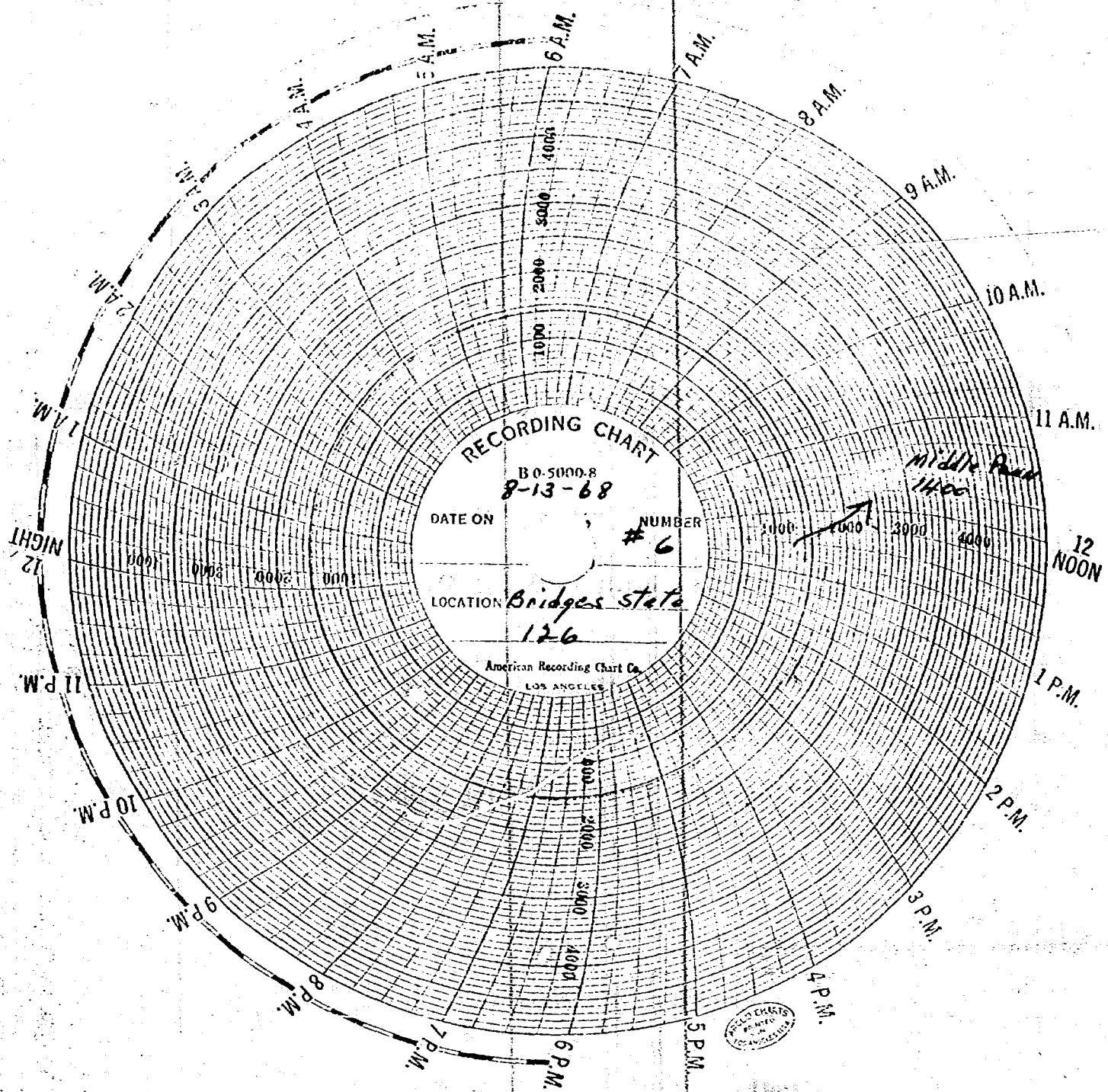














## WELL DATA

BRIDGES STATE WELL NO. 126

	<u>Abo</u>	<u>Middle Penn</u>	<u>Morrow</u>
Bbl Oil - 24 hours	312	360	262
Gas - Mcf - 24 hours	325.4	40.0	444.1
Gas-Oil Ratio	1043/1	111/1	1695/1
Water - 24 hours	0	0	55
Gravity of Oil @ 60° F	39.0	39.9	52.1
Flowing Tubing Pressure - PSI	550	640	925
Reservoir Pressure - PSI	891	1302	2710

BEFORE EXAMINER UTZ

OIL CONSERVATION

EXHIBIT NO.

CASE NO.

MOBIL OIL CORPORATION  
MIDLAND E & P DIVISIONExhibit No. 7  
Case No. 3852  
Date 9-4-68FLHart:mw  
8-27-68

STIMULATION TREATMENTS

Vacuum Abo North

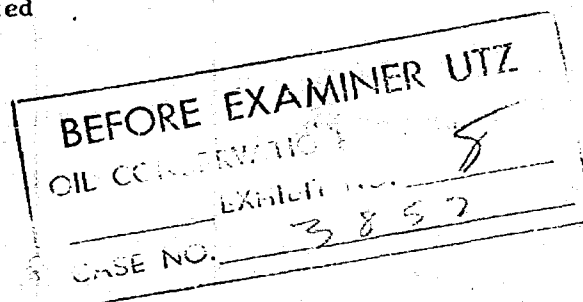
1,000 gallons 15% acid	6-20-68
1,000 gallons 15% acid	6-22-68
10,000 gallons 15% acid frac	6-24-68

Vacuum Middle Penn

1,000 gallons 15% acid	6-20-68
------------------------	---------

Vacuum Morrow North

Has not been stimulated



MORIE OIL CORPORATION  
MIDLAND E & P DIVISIO

Exhibit No. 8  
Case No. 3852  
Date 7-4-68