

CASE 3668: Application of MOBIL
OIL CORP. for a triple completion
Lea County, New Mexico

CASE No.

3668

Application,
TRANSCRIPTS,
SMALL Exhibits
ETC.

State of New Mexico
Oil Conservation Commission



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

Re: Case No. 3668
 & Order No. R-3330
 Applicant:
Mobil Oil Corporation

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. 3668
Order No. R-3330

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 October 25, 1967, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 27th day of October, 1967, 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 authority to complete its Bridges State Well No. 121, located in Unit L of Section 13, 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-Upper Pennsylvanian, and Vacuum-Middle Pennsylvanian Pools through parallel strings of 2 3/8-inch tubing, with separation of zones by packers set at approximately 10,040 feet and 10,397 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. 3668

Order No. R-3330

IT IS THEREFORE ORDERED:

(1) That the applicant, Mobil Oil Corporation, is hereby authorized to complete its Bridges State Well No. 121, located in Unit L of Section 13, 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-Upper Pennsylvanian, and Vacuum-Middle Pennsylvanian Pools through parallel strings of 2 3/8-inch tubing, with separation of zones by packers set at approximately 10,040 feet and 10,397 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 Vacuum-Middle Pennsylvanian 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


esr/

Docket No. 33-67

DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 25, 1967

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 3668: 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. 121 located in Unit L of Section 13, Township 17 South, Range 34 East, Lea County, New Mexico, to produce oil from the North Vacuum-Abo, Vacuum-Upper Pennsylvanian, and Vacuum-Middle Pennsylvanian Pools, through parallel strings of tubing.

CASE 3669: 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 on its State "VA" Lease by the injection of water into the Grayburg-San Andres formation through two wells located in Units K and M of Section 23, Township 17 South, Range 34 East, Vacuum Pool, Lea County, New Mexico.

CASE 3670: Application of Amerada Petroleum Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (combination) of its State "MA" Well No. 3 located in Unit M of Section 24, Township 11 South, Range 32 East, Lea County, New Mexico, in such a manner as to permit the production of gas from the Moore-Wolfcamp Gas Pool and oil from the Moore-Pennsylvanian Pool through tubing installed in parallel strings of 2 7/8 inch and 3 1/2 inch casing, respectively, cemented in a common well bore.

CASE 3671: Application of Amerada 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 Pennsylvanian formation, Bagley Field, Lea County, New Mexico, through the following three wells, all located in Township 12 South, Range 33 East:

L. H. Chambers Well No. 2, Unit C of
Section 11; Disposal Interval - 9005
to 9393 feet;

State BT "D" Well No. 4, Unit N of
Section 2; Disposal Interval - 8979
to 9291 feet;

J. T. Caudle Well No. 1, Unit H of
Section 10; Disposal Interval - 9001 to
9326 feet;

CASE 3672: Application of Charles B. Read and Len Mayer for back allowable, Eddy County, New Mexico. Applicants, in the above-styled cause, see the assignment of back allowable for the period from

April 7, 1967, to August 3, 1967, to their Irene Brainard Well No. 1 located in Unit E of Section 20, Township 18 South, Range 26 East, Atoka-Pennsylvanian Pool, Eddy County, New Mexico, said period being from the date of completion of the well to the date of approval by the Federal Power Commission for the sale of gas from said well.

- CASE 3673: Application of Ralph Lowe 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 interval 2964 feet to 2982 feet in his Humble State Well No. 1 located in Unit C of Section 36, Township 25 South, Range 36 East, Jalmat Pool, Lea County, New Mexico.
- CASE 3674: Application of Robert N. Enfield for the amendment of Order No. R-3189, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3189 which pooled all mineral interests in the Chaveroo-San Andres Pool underlying the NW/4 NW/4 of Section 11, Township 8 South, Range 33 East, Chaves County, New Mexico. Applicant specifically seeks the amendment of paragraph (9) of Order No. R-3189 to fix \$125.00 per month as a reasonable charge for supervision and operational overhead for the subject well and to authorize the applicant to withhold from production the proportionate share of said \$125.00 and the proportionate share of actual operating costs of said well attributable to each non-consenting working interest.
- CASE 3675: Application of Gulf Oil Corporation for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the North Hackberry Yates Unit Area comprising 720 acres, more or less, of Federal Lands in Sections 23 and 24, Township 19 South, Range 30 East, Eddy County, New Mexico.
- CASE 3676: Application of Gulf 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 Yates formation through eight wells in Sections 23 and 24, Township 19 South, Range 30 East, North Hackberry-Yates Pool, Eddy County, New Mexico.
- CASE 3677: Application of Dugan Production Corporation for special pool rules, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Salt Creek-Dakota Oil Pool, San Juan County, New Mexico, to permit the drilling of wells on 2 1/2 acre spacing provided that no well be located nearer than 165 feet to the outer boundary of the quarter-quarter section and no nearer than 200 feet to another well producing from the same pool, and provided further, that a 40-acre proration unit would be subject to a 40-acre allowable regardless of the number of wells on the unit.
- CASE 3678: Application of Ryder Scott Management Company for a waterflood expansion, waterflood buffer zone, and several unorthodox locations, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the expansion of its Artesia-Nichols Waterflood Project,

Township 18 South, Range 28 East, Artesia Pool, Eddy County, New Mexico, by the conversion of its Western-Yates Collier State Well No. 1 located in Unit F of Section 20 and its Mershon State Well No. 2 located in Unit D of Section 21. Applicant further proposes to drill three additional water injection wells at the following unorthodox locations in Section 20: 2650 feet from the North and West lines; 2650 feet from the North line and 1330 feet from the East line; and 1310 feet from the North line and 1330 feet from the East line. Applicant further seeks the designation of the W/2 NW/4 of Section 21 and the SW/4 NW/4, E/2 NW/4, NE/4, and W/2 SE/4 of Section 20 and the NW/4 NE/4 of Section 29 as a waterflood buffer zone with capacity allowables, or as an area wherein transfer of allowable between leases would be permitted.

CASE 3679: Application of Sinclair Oil & Gas Company for the amendment of Order No. R-2854, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-2854, which order established a 160-acre non-standard gas proration unit comprising the W/2 SW/4, SE/4 SW/4, and SW/4 SE/4 of Section 26, Township 21 South, Range 37 East, Tubb Gas Pool, Lea County, New Mexico, to be dedicated to applicant's J. R. Cone "A" Well No. 2 located in Unit L of said Section 26. Applicant now seeks the dedication of said unit to its J. R. Cone "B" Well No. 1 located in Unit N of said Section 26.

CASE 3680: Application of Texaco Inc. for an unorthodox location, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to recomplete its State "CT" Well No. 4 at an unorthodox location 660 feet from the North line and 1980 feet from the West line of Section 35, Township 7 South, Range 35 East, in the Todd-Upper San Andres Pool, Roosevelt County, New Mexico, in exception to the pool rules which require wells to be located in the NE/4 or the SW/4 of the Section.

OIL CONSERVATION COMMISSION
I DISTRICT

Case 3648

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE Sept. 8, 1967

Re: Proposed NSP _____
Proposed Triple _____
Proposed NSL _____
Proposed NFO _____
Proposed DC _____

Gentlemen:

I have examined the application dated 8/31/67
for the Mobil Oil Corp. Bridges State #121-L 13-17-34
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

O.K.---E.F.E.

O.K.---J.W.R.

Yours very truly,



MAIN OFFICE

'67 SEP 15 AM 8 40

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

Form C-107
5-1-61

Case 3668

Aug 10/25
H. J. Hunt

Operator Mobil Oil Corporation		County Lea	Date August 11, 1967
Address Box 633, Midland, Texas		Lease Bridges State	Well No. 121
Location of Well L	Unit 13	Township 17-S	Range 34-E

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 ☐
2. If answer is yes, identify one such instance: Order No. MG-1762; Operator Lease, and Well No.: Mobil Oil Corp. Bridges State #119

	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Vacuum North Abo	Vacuum Upper Penn.	Vacuum Middle Penn.
b. Top and Bottom of Pay Section (Perforations)	8485 - 8520	10,108 - 10,185	10,436 - 10,474
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 type="checkbox"/> | <input checked="" 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 112A.) |

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

Phillips Pet. Co., Box 2130, Hobbs, New Mexico

Texaco Inc., Box 728, Hobbs, New Mexico

'67 SEP 1 AM 8 08

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☒ NO ☐. If answer is yes, give date of such notification August 12, 1967.

CERTIFICATE: I, the undersigned, state that I am the Authorized Agent 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.

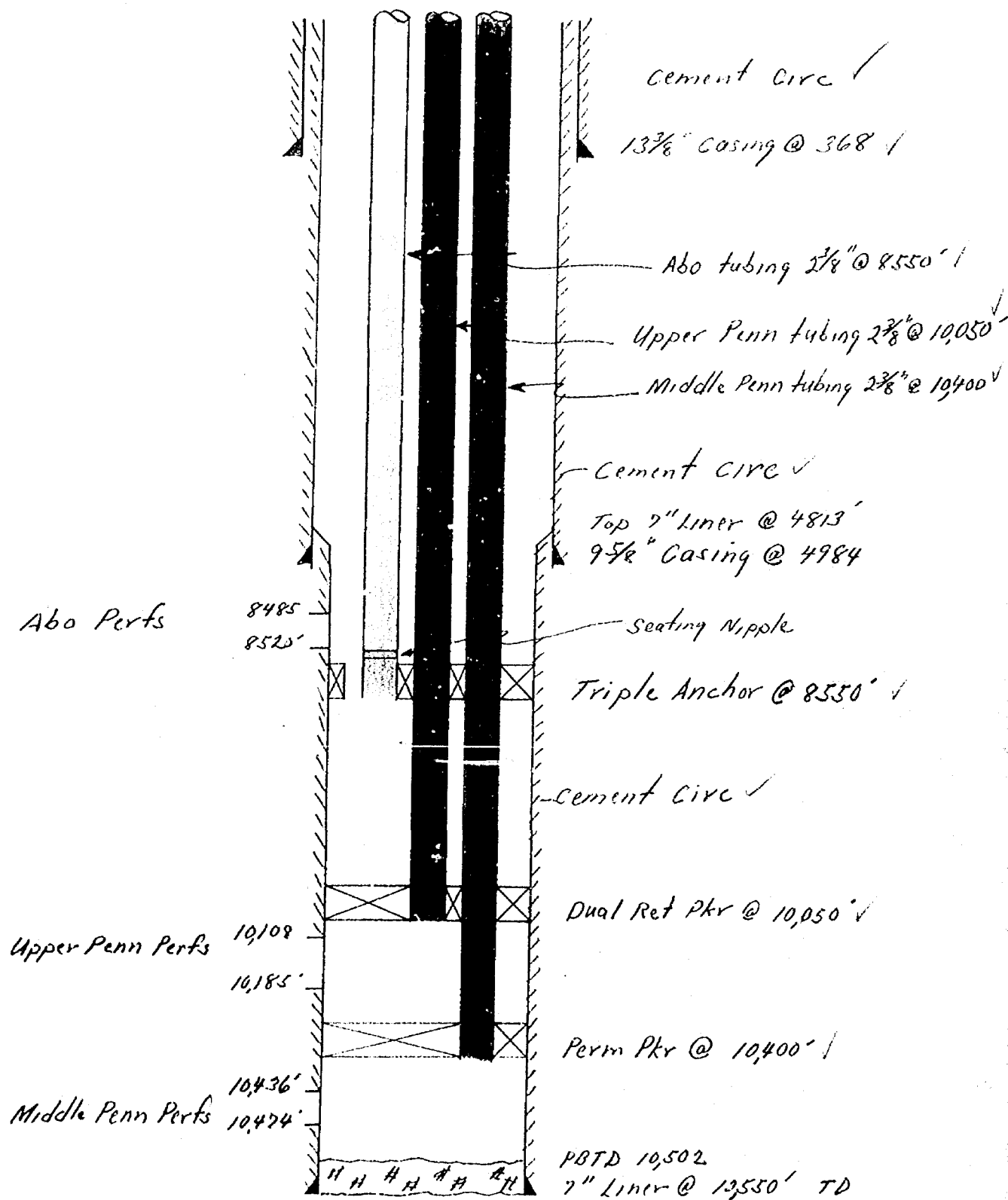
Date 8-15-67

Signature John J. Hunt

*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.

Bridges State #121
Proposed Well Bore Sketch



JYE 8-30-67

J. E. KAPTEINA

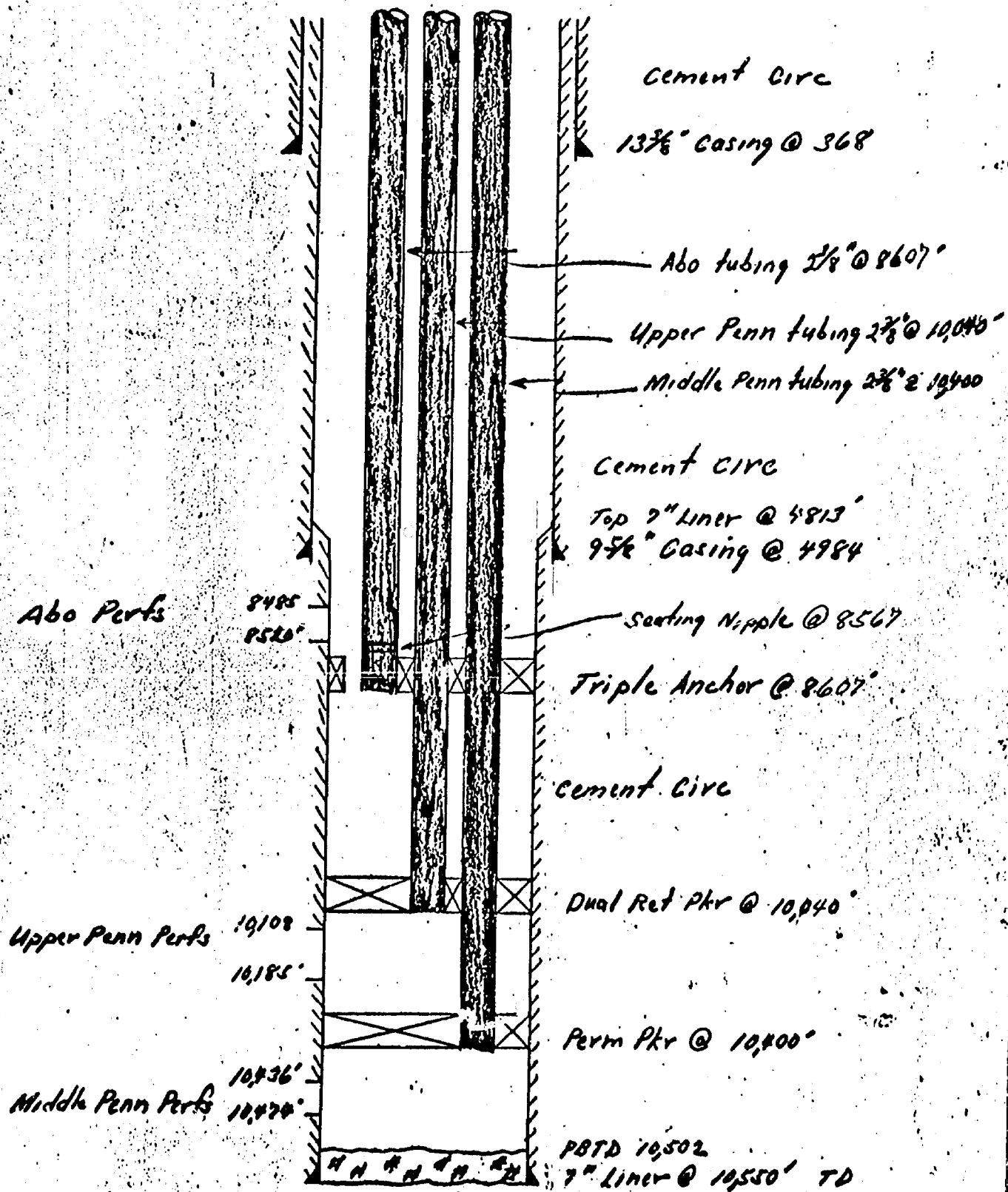
Enclosed Find sketch as well is completed

J.J. McDaniel

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Bridges State #121
Schematic Well Bore Sketch



DYE 9-15-67

dearnley-meier reporting service, inc.

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

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

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
October 25, 1967
EXAMINER HEARING

IN THE MATTER OF:)

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

Case No. 3668

BEFORE: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

Hearing Date OCTOBER 25, 1967 TIME: 9 A.M.

NAME	REPRESENTING	LOCATION
S.G. Buell	Montgomery, Ward & Anderson (Ralph Lowe)	Santa Fe
Lamar Eschberger	Ralph Lowe	
B.M. Anderson	Sinclair	Midland
J.E. Spurling	Mobil	Albuquerque
R.C. Hocher	Amerada	Tulsa, Okla.
A. Jack Evans	Amerada	Tulsa, Okla.
George E. Buchanan	Amerada	Tulsa, Okla.
F.L. HART	Mobil	Midland Tex
Bill Kasten	Gulf	Roswell
DON BILBREY	GULFOIL CORP	ROSWELL
Bocher, Kelly	United States Steel	S.F.
N. Dunning	Valero Petroleum Co	SF - Austin
Tom Nunn		Jarrowington
CARL WACHMAN	TEXACO	MIDLAND
Charles B. Reed	Independent	Roswell

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARINGSANTA FE, NEW MEXICOHearing Date OCTOBER 25, 1967 TIME: 9 A.M.

NAME	REPRESENTING	LOCATION
Jason Kellah Q. Lovee	Kellah & Fox self	Santa Fe Artesia

MR. UTZ: The next case will be Case 3668.

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

(Whereupon, Applicant's
Exhibits 1 through 5 were
marked for identification)

MR. SPERLING: J. E. Sperling, Albuquerque, appearing
for the Applicant, Mobil Oil Corporation.

MR. UTZ: Are there any other appearances in this
case? You may proceed.

MR. SPERLING: We have one witness, Mr. Hart.

(Witness sworn)

F R A N K L. H A R T, called as a witness, having been first
duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. SPERLING:

Q State your name, please, place of residence,
occupation and by whom employed?

A Frank L. Hart, Midland, Texas. I'm employed by
Mobil Oil Corporation, Senior Production Engineer.

Q Have you on any prior occasion testified before the
Commission so that your qualifications are a matter of record?

A I have.

MR. SPERLING: Are Mr. Hart's qualifications

accepted?

MR. UTZ: Yes, sir.

Q (By Mr. Sperling) Are you familiar with the application which has been filed in this case?

A I am.

Q Will you please refer to and identify what has been marked as Exhibit Number 1?

A Exhibit Number 1 is a map of Bridges State Well Number 121, Bridges State Lease, Mobil Oil Corporation, which is located in Unit L, Section 13, Township 17 South, Range 34 East in Lea County, New Mexico in the North Vacuum Field.

Q The plat also shows the surrounding wells to the well which you have just identified together with Lease ownership?

A Yes, sir, and also to the depths those wells are completed, surrounding this well.

Q When was this particular well drilled?

A It was spudded on July 3rd, 1967.

Q And the total depth?

A The total depth was 10,550 feet.

Q The application proposes an order approving the multiple completion of this well. Would you please refer now to Exhibit Number 2 and explain what that is?

A Exhibit Number 2 is a diagrammatic sketch of the multiple completion of Mobil Bridges State Number 121. Referring to Exhibit 2, thirteen and three-eighths-inch casing was set at three hundred and sixty-eight feet, nine and five-eighths-inch casing was set at four thousand nine hundred and eighty-four feet and a seven-inch liner was set from four thousand eight hundred and thirteen feet to ten thousand five hundred and fifty feet, which was total depth. Both strings of casing and the seven inch liner were cemented and the cement was circulated in each case. The cased hole was then tested to 2,000 psi and found to be fluid tight. After hydraulic testing, an electric log, which is Exhibit Number 3, was run.

Q What reservoirs were penetrated in this well?

A The Abo Reservoir. The top perforation in the Abo that we penetrated was 8,485 feet. The top perforation for our Upper Pennsylvanian was 10,108, and the Middle Pennsylvanian, which was the discovery in this zone, the top perforation on that was 10,436 feet.

Q Now what treatment has this well received?

A After perforation operations, the Abo Reservoir was treated with 3,000 gallons of fifteen per cent NE acid, and the Upper Pennsylvanian with 1,000 gallons of fifteen per cent NE acid, and the Abo reservoir was later fractured with 20,000

gallons of jelled fifteen per cent NE acid, with 20,000 pounds of 20-40 ottawa sand. The middle Pennsylvanian has not been stimulated.

Q Now referring to Exhibit Number 2 again, would you explain the method of completion and the proposed production equipment?

A Yes, sir. A Guiberson "A" permanent type production packer was set at 10,400 feet. A Guiberson seven-inch dual type RH-2 production packer was set at 10,040 feet. A Guiberson triple anchor was installed at 8,607 feet. As illustrated on Exhibit 2, two and three-eighths-inch production tubing was installed for each zone.

Q Have those packers, that you have stated were installed, been tested?

A Yes, sir. The results of the packer leakage tests are shown on Exhibit 4, and they reveal no communication between zones.

Q Does this particular installation permit the testing of the reservoir pressures in the respective reservoirs?

A Yes, sir. We can test reservoir pressures, and we have triple head on the well, and separate producing equipment in order that the gas and the gas-oil and the oil from each separate stratum might be accurately measured and their gas-oil

ratios determined.

Q Now, is this type of completion what is referred to as a conventional multiple completion?

A Yes, sir, it is.

Q You stated that gas-oil ratios could be determined. Have those ratios been determined for the respective reservoirs?

A Yes, sir, they have.

Q Would you please refer to Exhibit 5, now, and describe the information contained on that exhibit?

A From a twenty-four hour test the Abo produced 376 barrels of oil, 272 mcf of gas, which gives the gas-oil ratio of 723, there is no water produced from this testing period. Gravity of the oil was 27 at 60 degrees Fahrenheit, flowing tubing pressure was 250 pounds, the reservoir pressure was 1771 pounds; the Upper Pennsylvanian was tested for 24 hours and also produced 236 barrels of oil, 161 mcf of gas with a gas-oil ratio of 683, and produced no water. Gravity of the Upper Penn was 44.0 at 79 degrees Fahrenheit, flowing tubing pressure was 400 degrees; the Upper Pennsylvanian has just in the last few days been put on pump.

The Middle Penn was tested also for 24 hours and made 468 barrels of oil, 390 mcf of gas with gas-oil ratio of 833, and produced no water. Gravity was 43.1 at 60 degrees

Fahrenheit, flowing tubing pressure was 600 degrees, the reservoir pressure was 2129.

MR. UTZ: You don't have the pressure for the Upper Penn at all?

MR. HART: No, sir. It has been put on pump and we hadn't measured it until last Wednesday, that's when we measure our reservoir pressures.

Q (By Mr. Sperling) Now, the question of the establishment of an allowable for the Middle Penn was subject of hearing last Wednesday. No allowable as yet has been established for the Middle Penn. Have allowables been established for the Abo or the Upper Penn?

A No, sir, they haven't, and Mobil requests that they grant approval for the multiple completion and also assign allowables for the Upper Penn and the Abo.

Q Do you have anything further to add, Mr. Hart?

A A potential test for the Upper Penn was mailed to the Commission on September 15, 1967, that potential test for the Abo was mailed to the Commission on August 30, 1967, owing to the non-productive delay period Mobil requests that allowables for the Upper Penn and the Abo pools be made retroactive to the date the Commission received the potential test on these wells and that Mobil be granted a period of one year in which to make

up this production.

Q Do you have anything further?

A No, sir.

MR. SPERLING: I would like to offer Exhibits 1 through 5 at this time, Mr. Examiner.

MR. UTZ: Without objection, Exhibits 1 through 5 will be entered into the record of this case.

(Whereupon applicant's exhibits 1 through 5 were admitted in evidence.)

CROSS EXAMINATION

BY MR. UTZ:

Q What was the reason that your allowables haven't been assigned to the Abo and the Upper Penn, this pending request here before the Commission?

A It was pending the discovery allowable hearing, I believe, and they gave us one allowable for the Middle Penn and we have been producing that.

Q I don't quite understand it, but I guess I will when I talk to Joe. All the casing in this well, well, you have a complete sheath from top to bottom, right?

A Yes, sir, we do have.

Q I am not sure that I got the location of the packers, is that the figure after the blank 4984 for the Abo packer? No,

that wouldn't be it.

A No, that's the bottom of the casing there.

Q The figure is not shown on Exhibit 2, then?

A Let me see if I can find it.

Q Would the upper one be 8607?

A Yes, sir.

Q How about the Upper Penn?

A The packer is at 10,040 there. The bottom packer in there is at 10,397. It isn't too clear.

Q It's all there?

A Just need an arrow there or something.

MR. UTZ: Any other questions of the witness?

The witness may be excused.

(Witness excused)

MR. UTZ: If there are no statements the case will be taken under advisement.

I N D E X

<u>WITNESS</u>	<u>PAGE</u>
FRANK L. HART	
Direct Examination by Mr. Sperling	2
Cross Examination by Mr. Utz	8

<u>EXHIBIT</u>	<u>MARKED</u>	<u>OFFERED AND ADMITTED</u>
Applicant's 1 through 5	2	8

STATE OF NEW MEXICO)
) ss
 COUNTY OF BERNALILLO)

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.

Ada Dearnley
 NOTARY PUBLIC

My Commission Expires:

June 19, 1971

I do hereby certify that the foregoing is a complete record of the proceedings in the hearing before the New Mexico Oil Conservation Commission of Case No. 3668 heard by me on 10-20-67 1967
[Signature]
 Notary Public, Bernalillo
 New Mexico Oil Conservation Commission

DIAGRAMMATIC WELL SKETCH
BRIDGES STATE WELL NO. 121
VACUUM-NORTH VACUUM FIELDS
LEA COUNTY, NEW MEXICO

13-3/8"-48#/Ft H-40. Set w/325
sx cement circ.
Min. Burst Press. = 1,730 psi

368'

Top of Liner

9-5/8"-Grade & Wt. N.A. Set
w/2,400 sx cement circ.

Min. Burst Press. = N.A.

Abo Tubing

2-3/8" GST J-55 (275 Jts.) latched
in Guiberson triple anchor
w/8,000# weight.

Upper Penn Tubing

2-3/8" GST J-55 (323 Jts.) latched
in Guiberson-type RH-2 dual
packer w/8,000# tension.

Middle Penn Tubing

2-3/8" N-80 latched in Guiberson-
type "A" perm. packer.

7"-23#/Ft S-95 & N-80 liner set
w/1,000 sx & circulated.

Min. Burst Press. = 16,340 psi

4,813'

4,984'

Abo Perforations
8,485'-8,520' - 1 J.S.P.F.
Total Holes - 20

8,607'

10,040'

Upper Penn Perforations
10,108'-10,185' - 1 J.S.P.F.
Total Holes - 17

10,397'

Middle Penn Perforations
10,436'-10,474' - 1 J.S.P.F.
Total Holes - 20

10,502' - P.B.T.D.

10,550' - T.D.

10/25/67

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Case NO. 3668
EXHIBIT NO. 2

Mobil Oil Corp

Exhibit No. 2

Case

3668

Date

10-25-67

MOBIL OIL CORPORATION

MIDLAND E & P DIVISION

BRIDGES STATE NO. 121

EXHIBIT NO. 4

CASE NO. 3668

DATE October 25, 1967

BEFORE EXAMINER UTZ
CIL CONSERVATION COMMISSION
EXHIBIT NO. 4
CASE NO. 3668

NEW MEXICO OIL CONSERVATION COMMISSION
SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator Mobil Oil Corporation			Lease Bridges State			Well No. 121		
Location of Well	Unit Y.	Sec 13	Twp 17	Rge 34	County Lea			
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, Also N		Oil	Flow	Tbg		13/64	
Lower Compl	Vacuum Middle Penn		Oil	Flow	Tbg		16/64	
Middle Compl	Vacuum Upper Penn		Oil	Flow	Tbg		2"	
All			FLOW TEST NO. 1					

Both zones shut-in at (hour, date): 8:00 A.M., September 17, 1967 ABD

Well opened at (hour, date): 8:00 A.M., September 18, 1967

	Middle Completion	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....		X	
Pressure at beginning of test.....	11	542	1073
Stabilized? (Yes or No).....	Yes	Yes	Yes
Maximum pressure during test.....	17	542	1118
Minimum pressure during test.....	11	150	1073
Pressure at conclusion of test.....	17	247	1118
Pressure change during test (Maximum minus Minimum).....	6	392	45
Was pressure change an increase or a decrease?.....	Increase	decrease	increase
Well closed at (hour, date): 8:00 A.M. 9-19-67	Total Time On Production	24 hrs.	
Oil Production 304 bbls; Grav. 37.8 @ 60°	Gas Production 210.6 MCF; GOR 693		
Remarks Produced no free water			

FLOW TEST NO. 2

Well opened at (hour, date): 8:00 A.M. September 20, 1967 Middle Penn

	Middle Completion	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....			X
Pressure at beginning of test.....	18	454	1126
Stabilized? (Yes or No).....	Yes	Yes	Yes
Maximum pressure during test.....	19	521	1126
Minimum pressure during test.....	18	454	418
Pressure at conclusion of test.....	19	521	418
Pressure change during test (Maximum minus Minimum).....	1	67	708
Was pressure change an increase or a decrease?.....	increase	increase	decrease
Well closed at (hour, date): 8:00 A.M. September 21, 1967	Total time on Production	24 hrs.	
Oil Production 255 bbls; Grav. 42.8 @ 60°	Gas Production 337.3 MCF; GOR 1323		
Remarks Produced no free water			

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 J. J. McDaniel
Authorized Agent
Date September 23, 1967

FLOW TEST NO. 3

	Middle Completion	<i>Upper Perm</i> Upper Completion	Lower Completion
Well opened at (hour, date): 8:00 A.M. September 22, 1967			
Indicate by (X) the zone producing.....	X	<i>U</i>	
Pressure at beginning of test.....	19	571	994
Stabilized? (Yes or No).....	Yes	Yes	Yes
Maximum pressure during test.....	140	586	1003
Minimum pressure during test.....	5	571	994
Pressure at conclusion of test.....	37	586	1003
Pressure change during test (Maximum minus Minimum).....	135	15	9
Was pressure change an increase or a decrease?.....	decrease	increase	increase
Well closed at (hour, date) 8:00 A.M. September 23, 1967	Total time on 24 hrs		
Oil Production 0	Gas Production: STM		
During Test: _____ bbls; Grav. _____	During Test _____ MCF; GOR _____		
Remarks Produced no free water.			

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

Operator _____

By _____

By _____

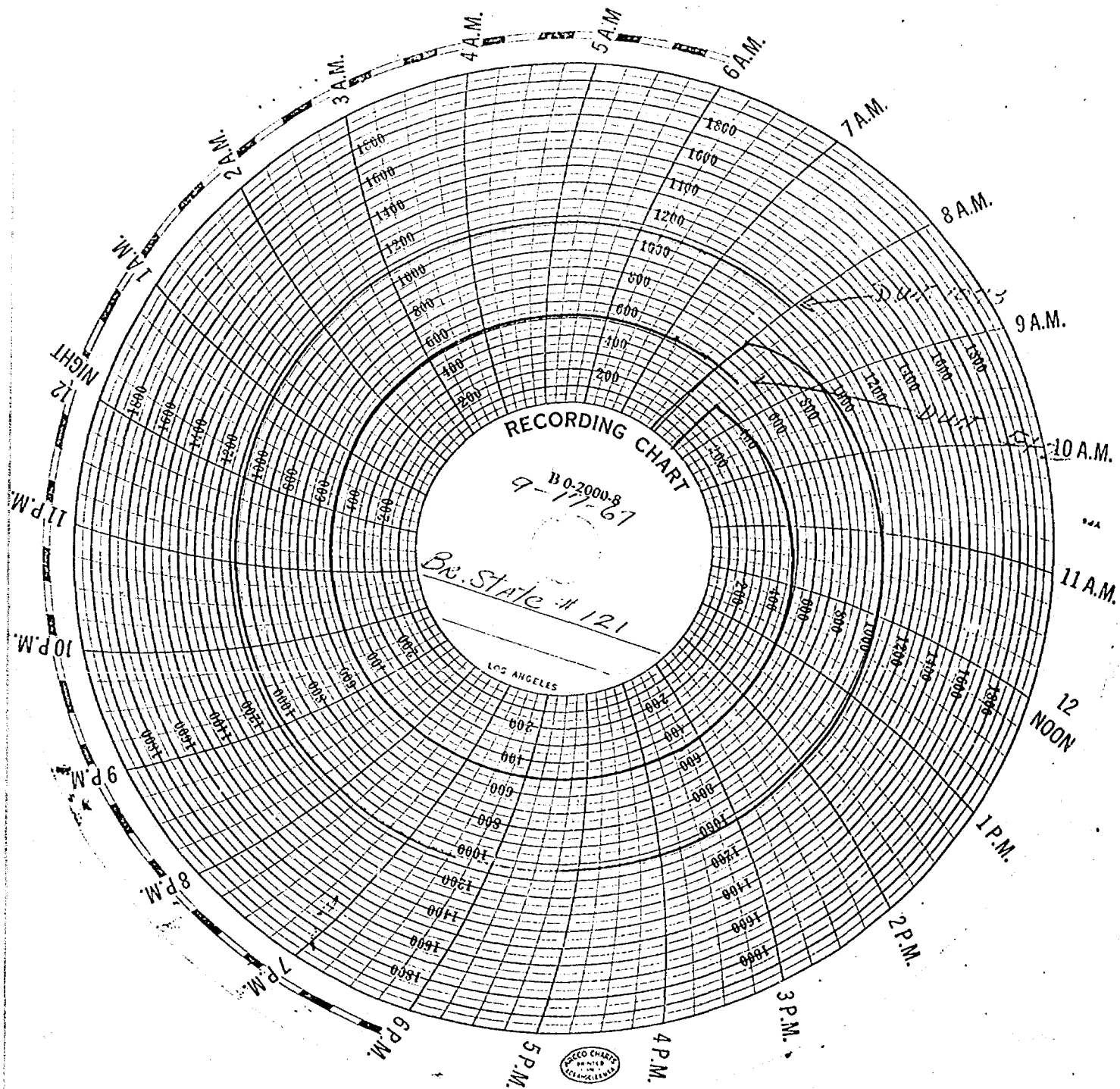
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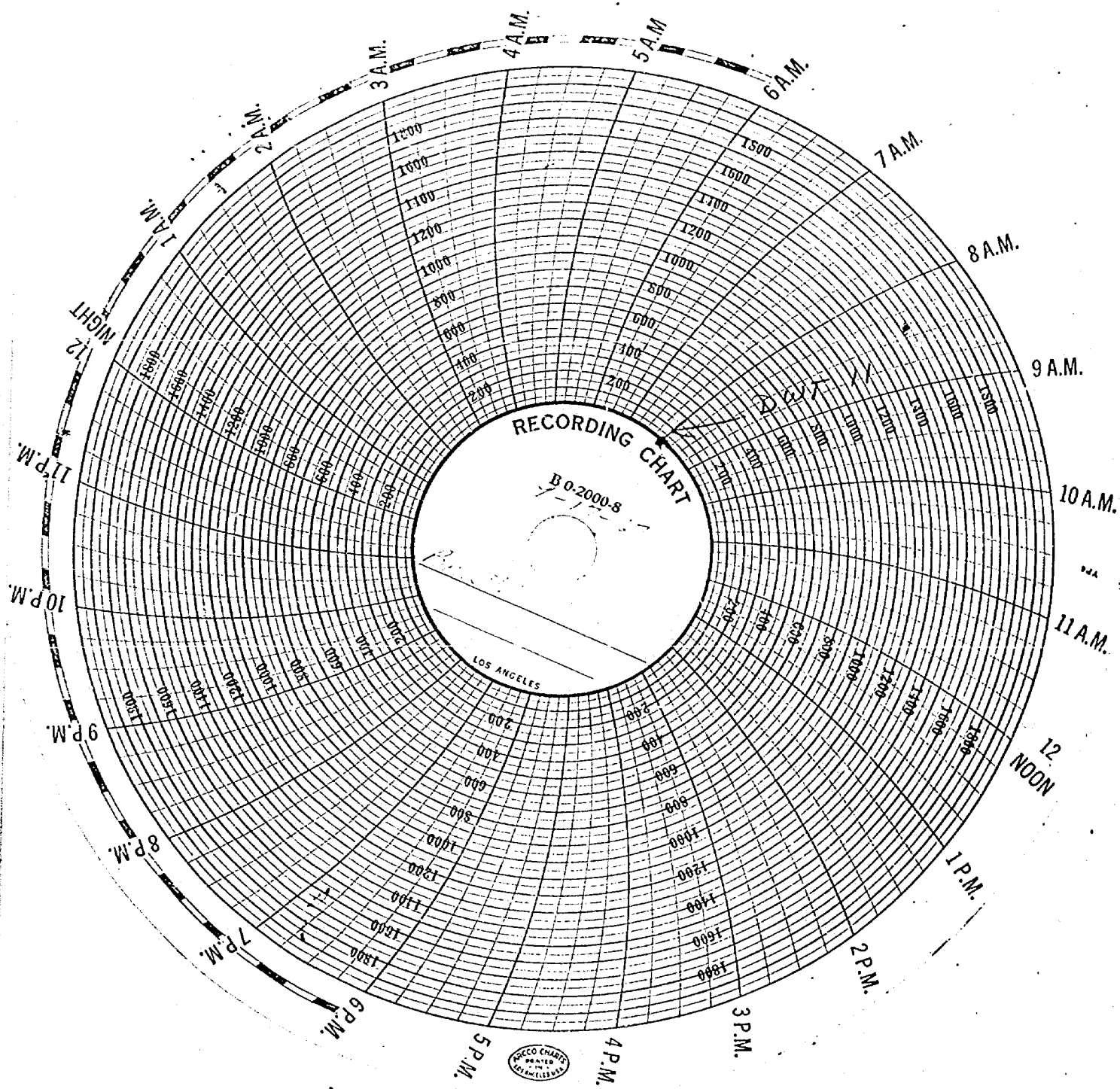
Authorized Agent

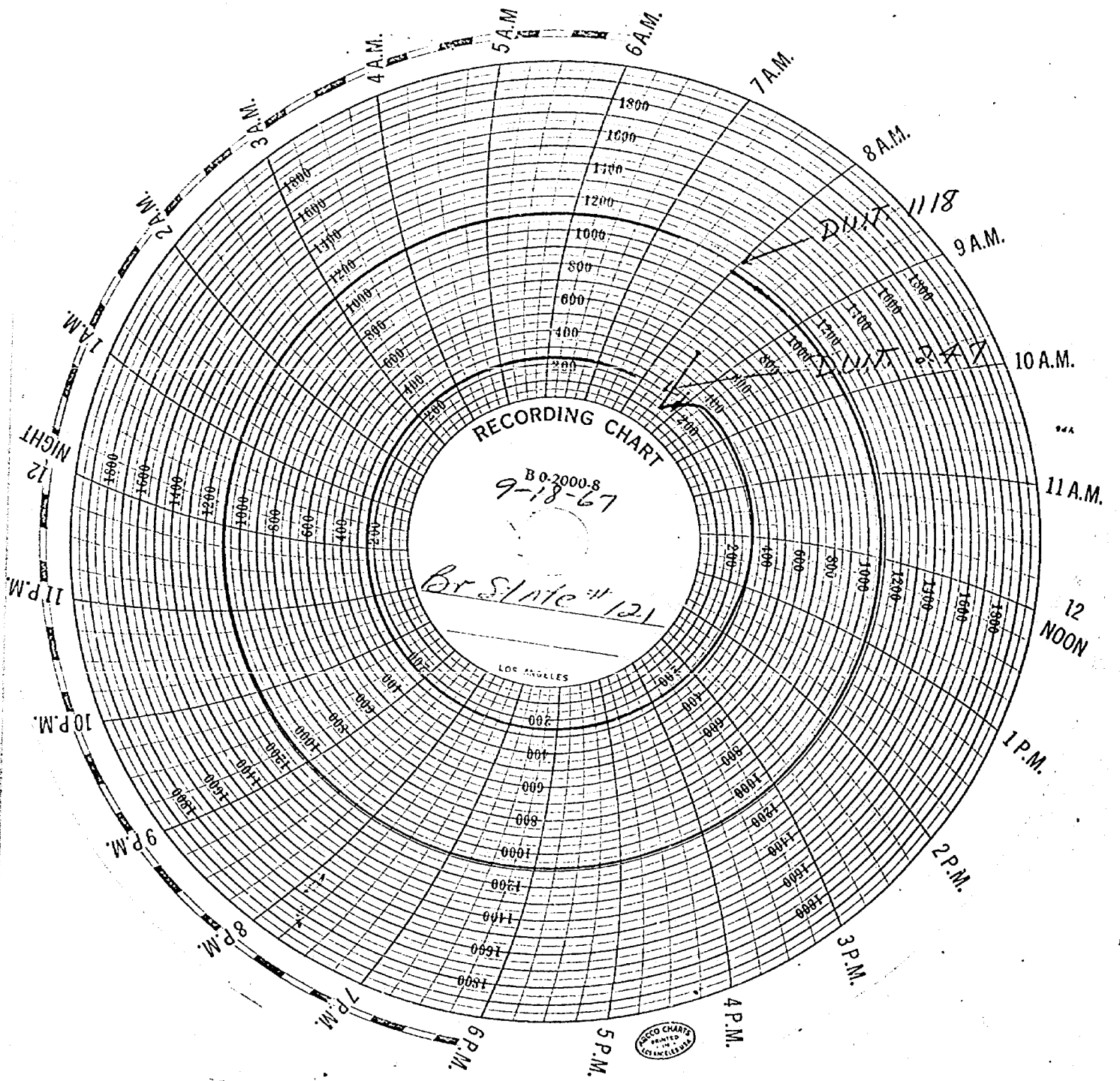
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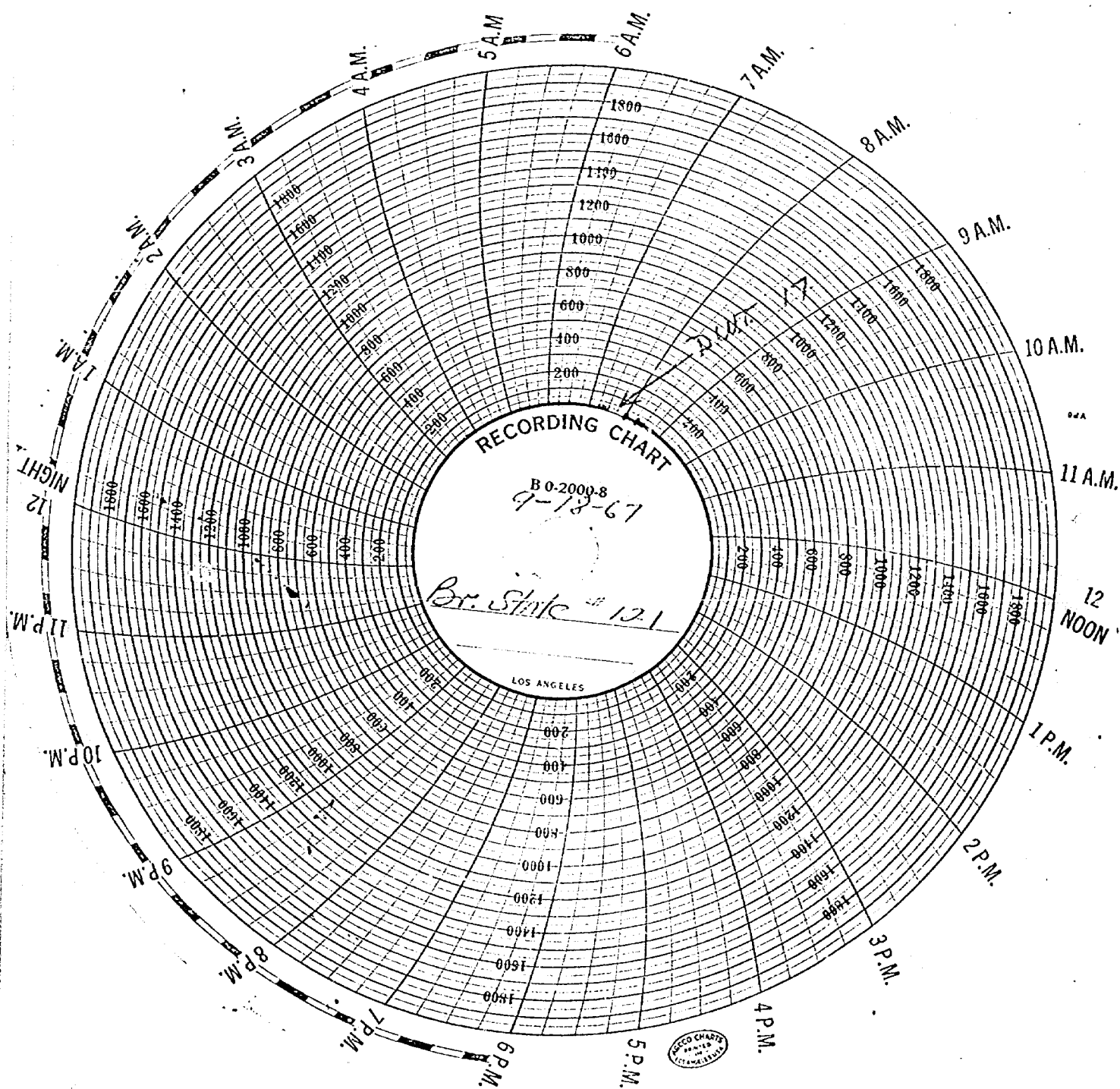
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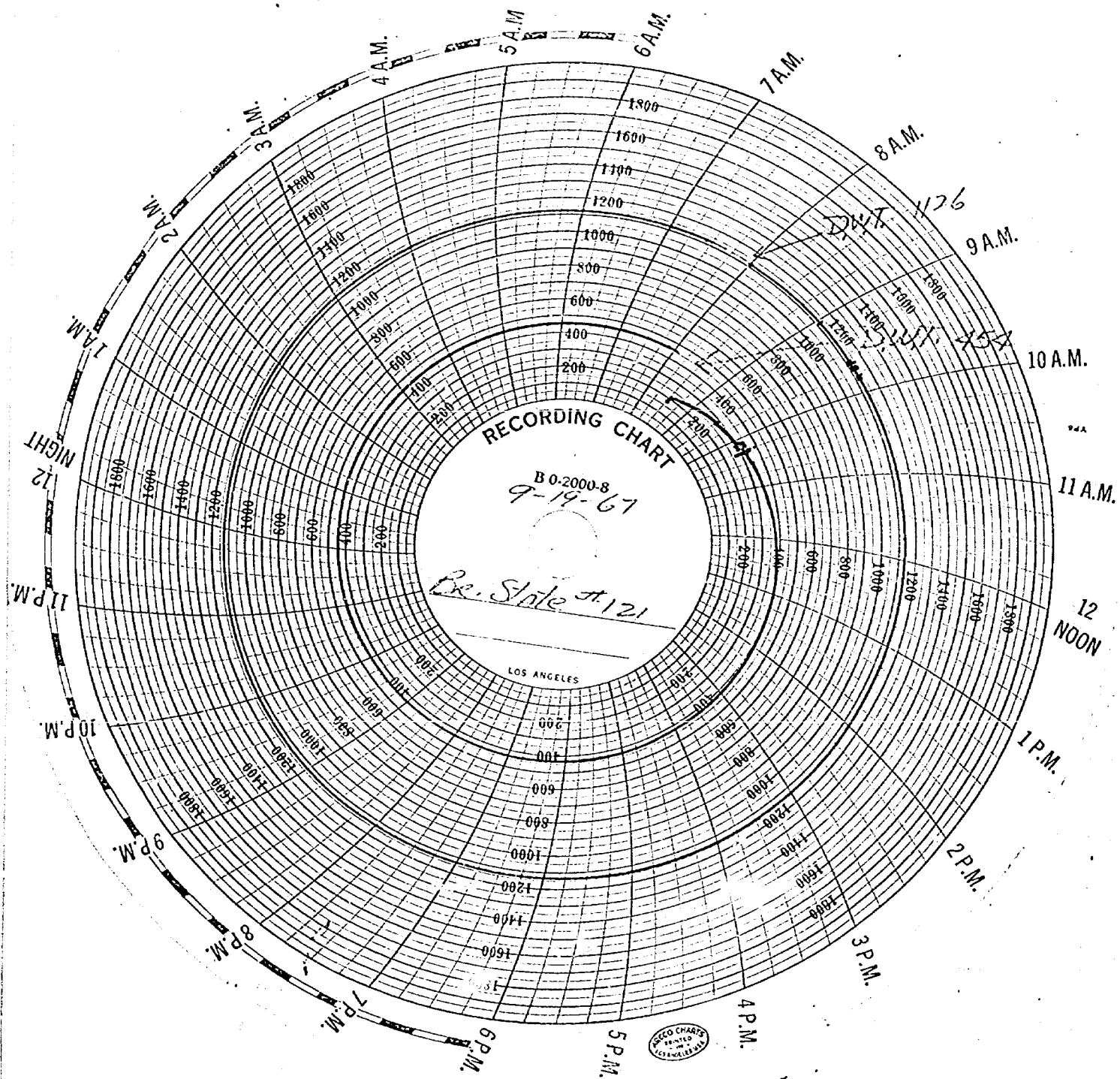
September 23, 1967

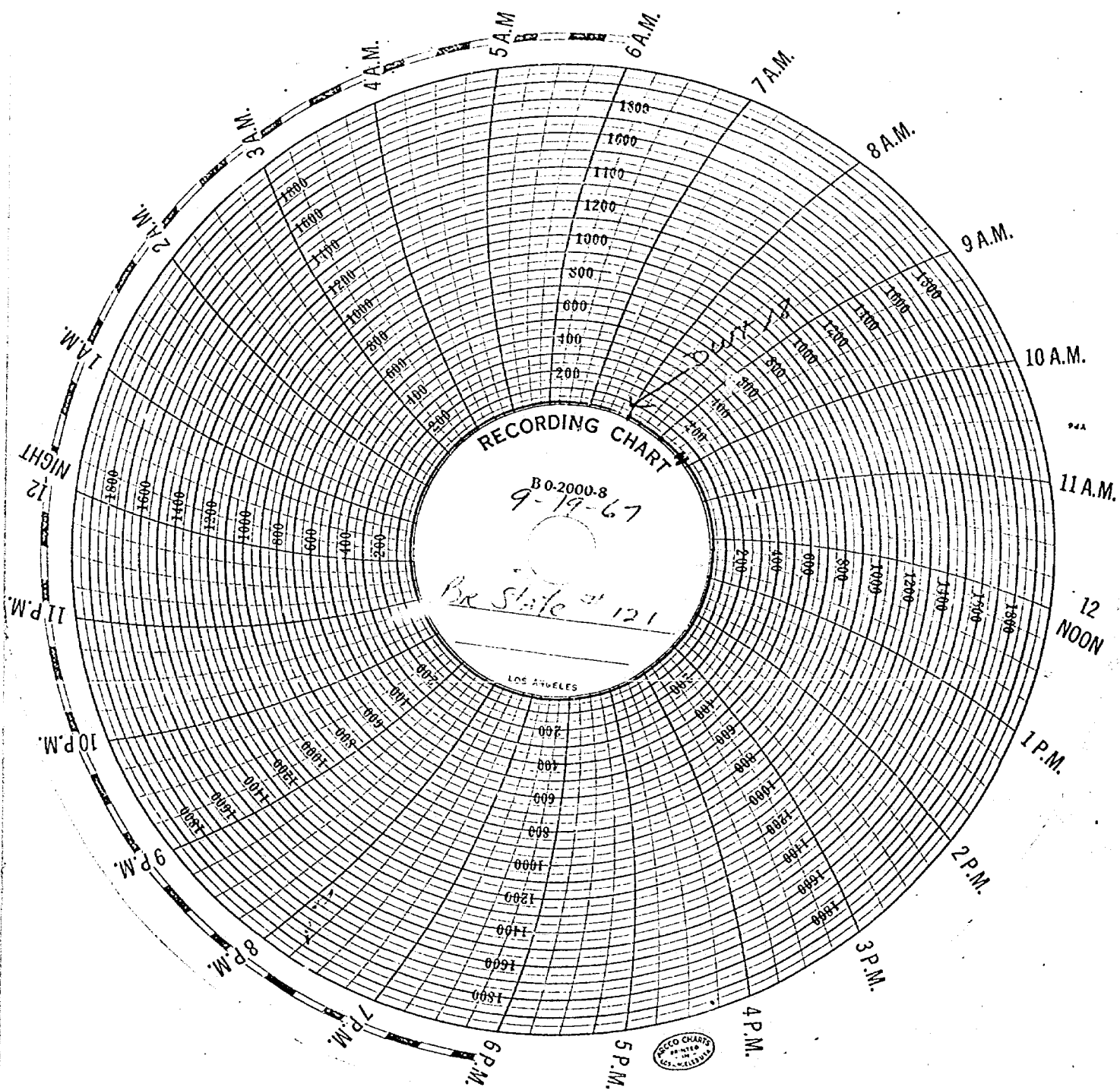


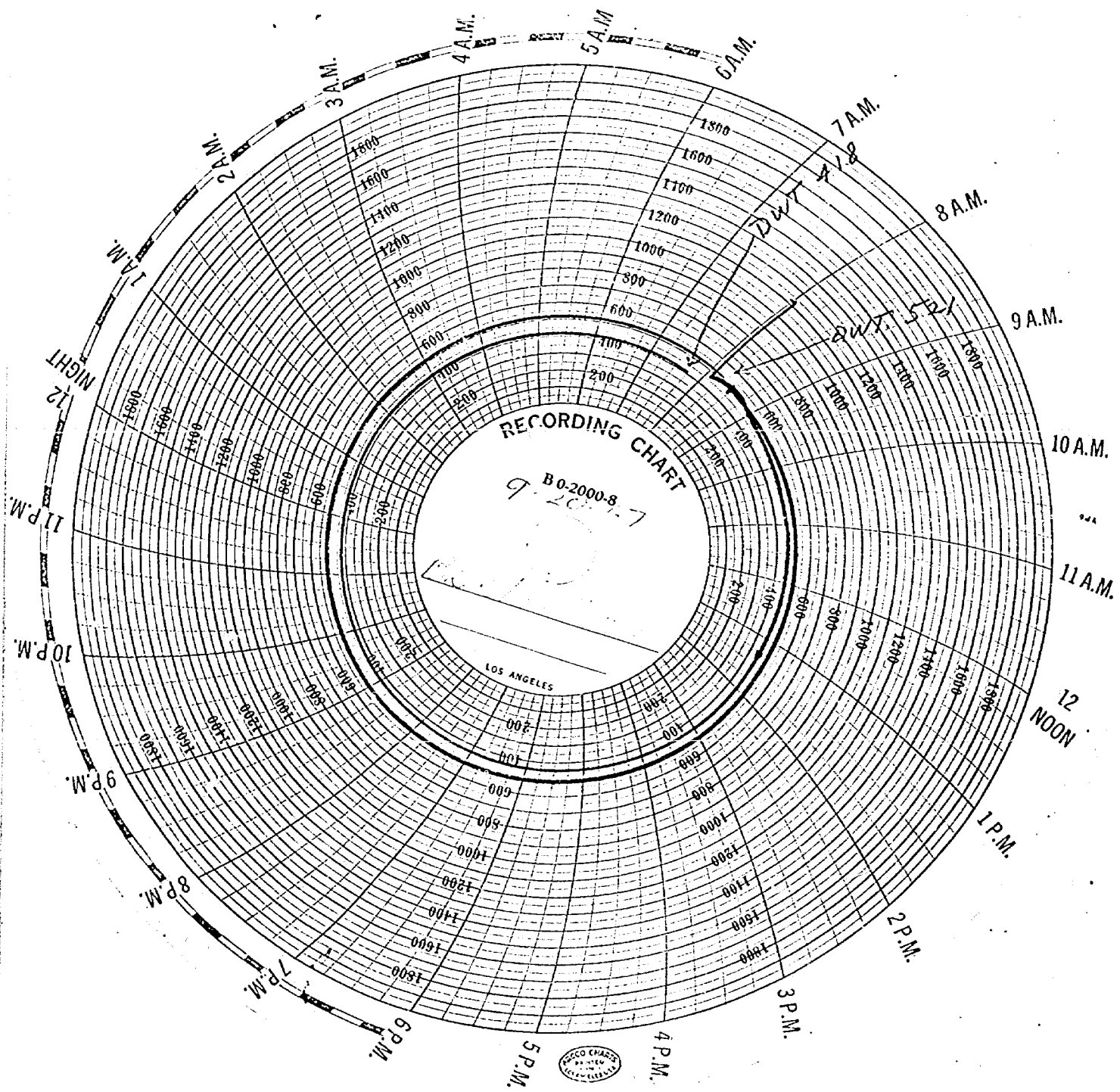


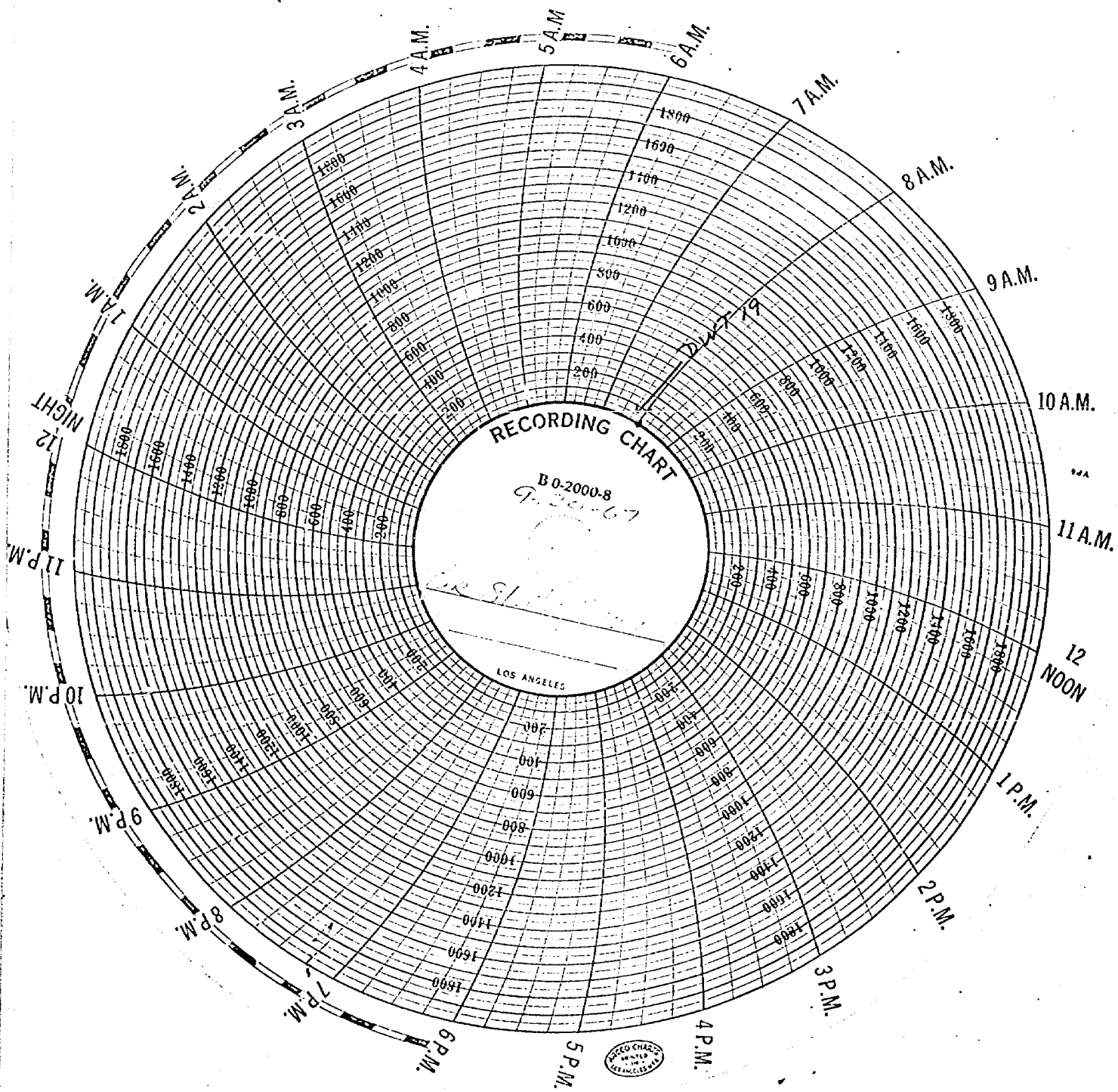


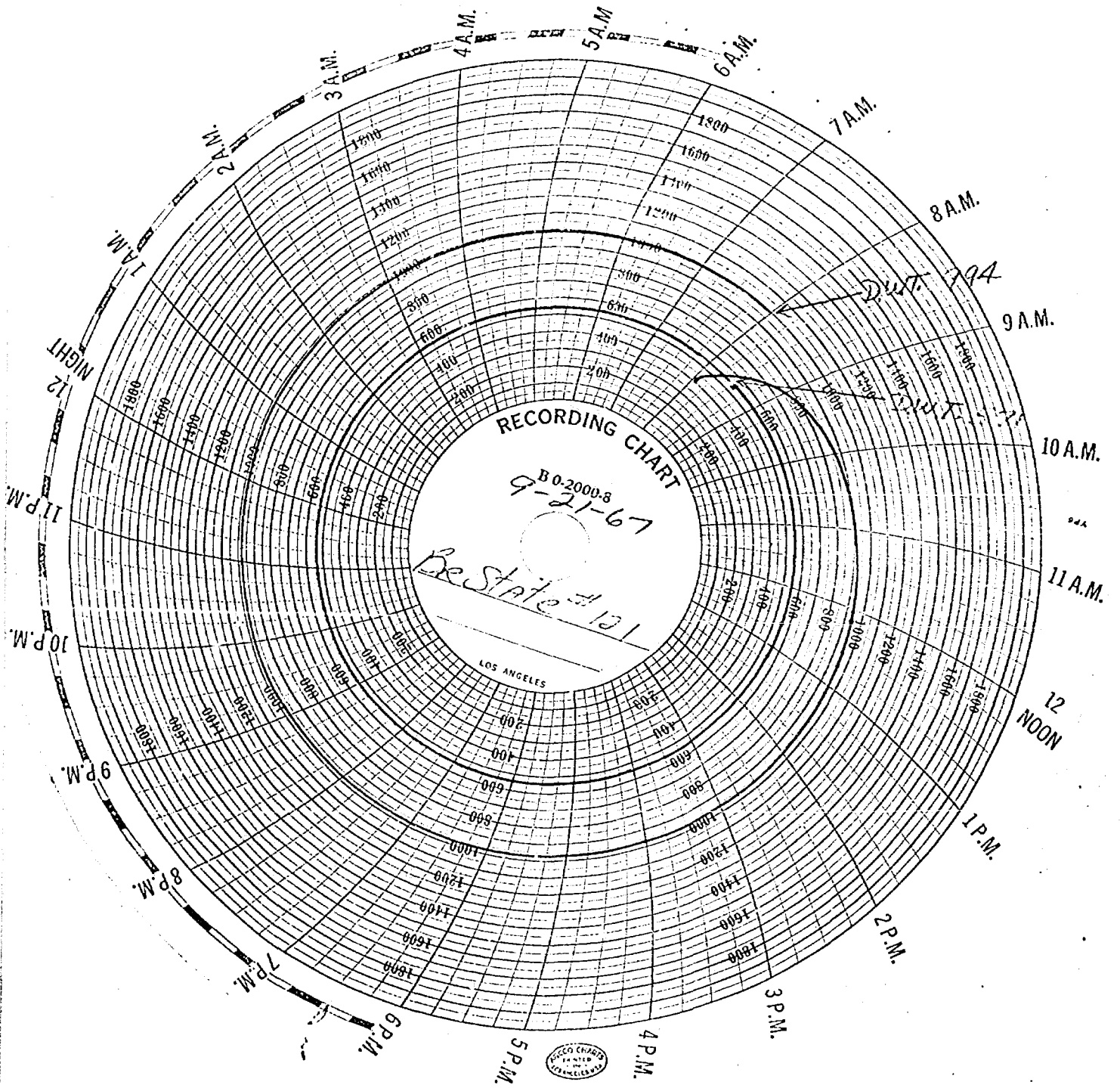


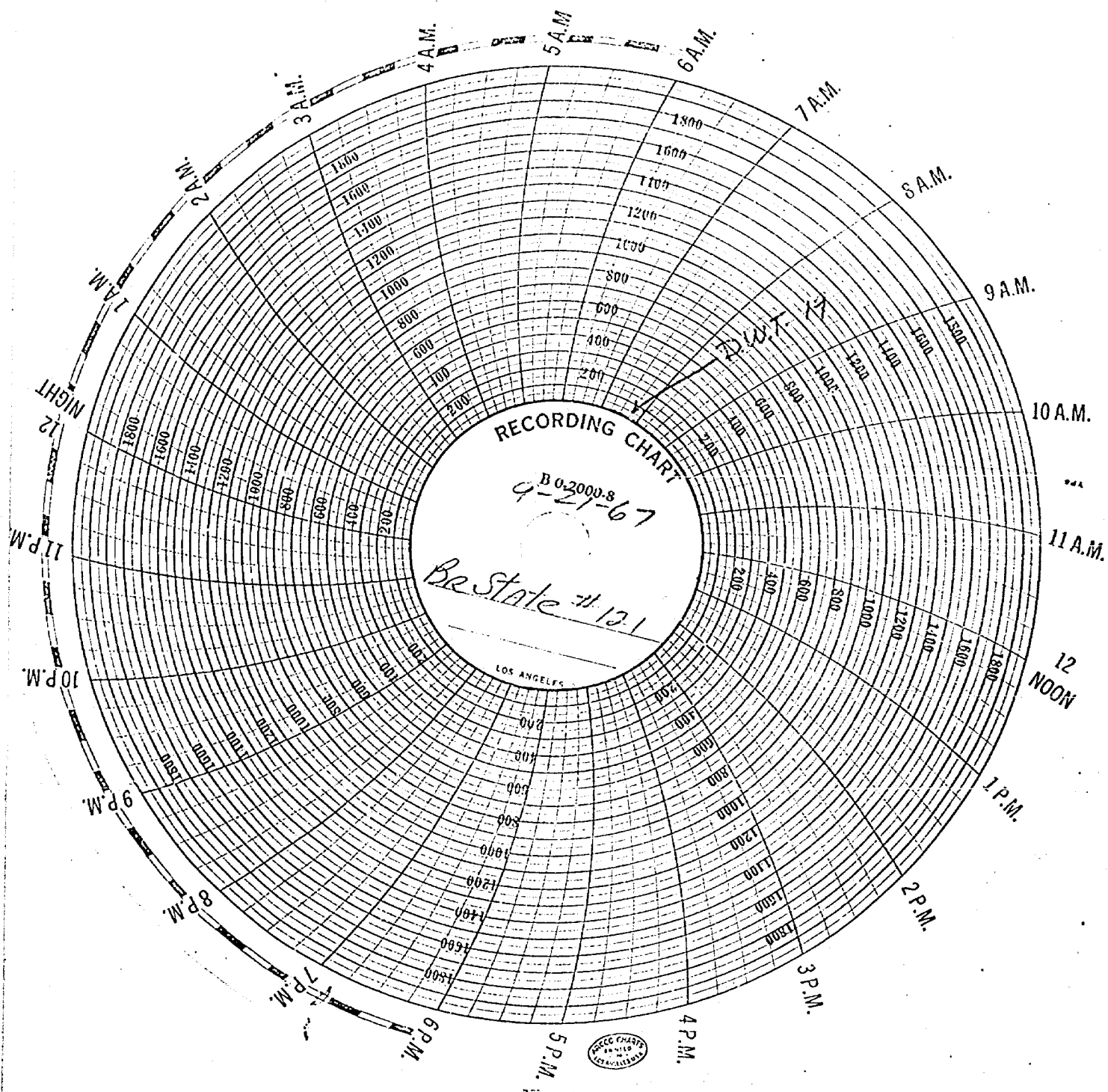




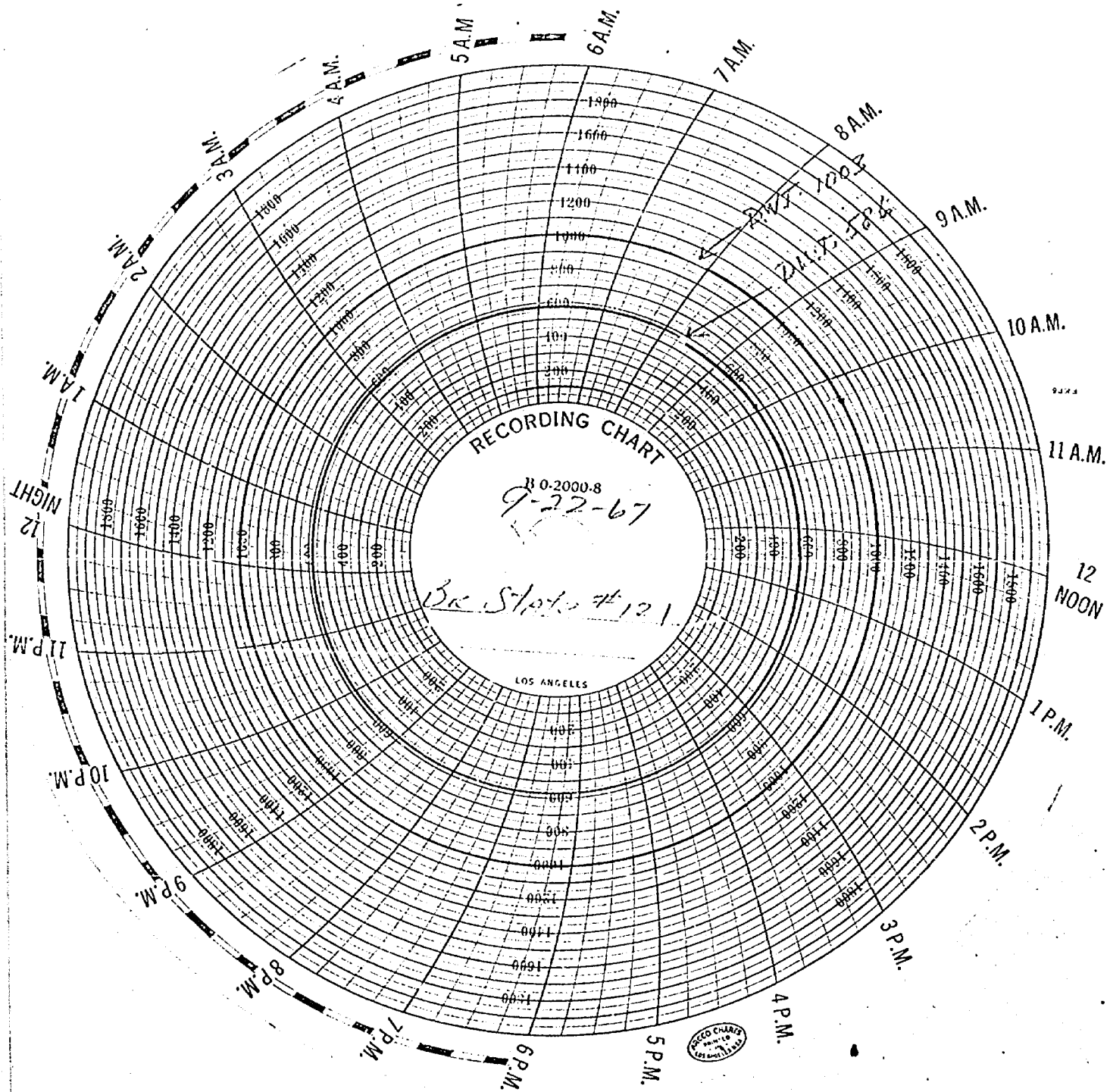


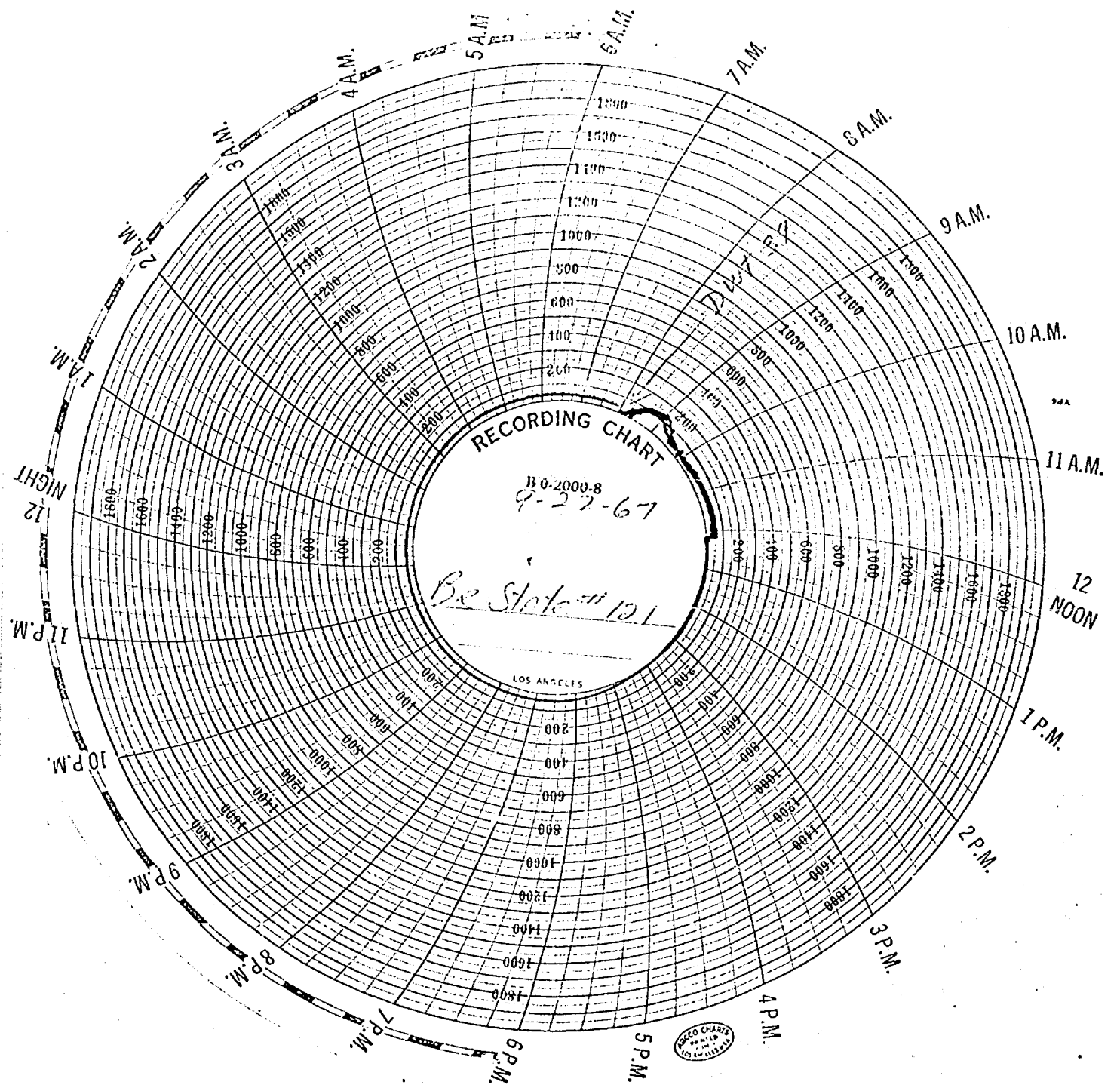






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WELL DATA

	<u>Abo</u>	<u>Upper Penn</u>	<u>Middle Penn</u>
Bbls Oil - 24 Hrs.	376	236	468
Gas-Mcf - 24 Hrs.	272	161	390
Gas-Oil Ratio	723	683	833
Water - 24 Hrs.	0	0	0
Gravity	27.0 @ 60° F	44.0 @ 79° F	43.1 @ 60° F
Flowing Tbg. Pressure	250	400	600
Reservoir Pressure	1771	ppg	2129

*Monitor
pump*

Mobil Oil Corporation
Exhibit No. 5
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Date October 25, 1967