

No. 000

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Drawer D
Monument, New Mexico
January 28, 1958

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

Re: Application to Dually Complete Amerada
State BT"K" No. 1, Bagley Pennsylvanian
Pool, Lea County, New Mexico

Gentlemen:

By this letter of application Amerada Petroleum Corporation wishes to state the following:

- A. That the Amerada State BT"K" No. 1 is located 660 feet FSL and 1980 feet FWL of Section 34, Township 11 South, Range 33 East, Lea County, New Mexico. This well is located in the SE/4 of the SW/4 of Section 34. This well was completed June 18, 1951 at a total depth of 11,060 feet was plugged back and completed in the Bagley Pennsylvanian Oil Zone. The attached Exhibit "A" shows the location of this well on the Amerada State BT"K" Lease together with the location of all offset wells.
- B. That the subject well has 5-1/2" casing set at 9915 feet with 600 sacks of cement. The top of the cement behind the 5-1/2" casing is at 6950 feet. The well is classified as an oil well and is producing from the Bagley Pennsylvanian Oil Zone in the interval of 9320 feet to 9375 feet and 9390 feet to 9435 feet.
- C. That the applicant proposes to dually complete the well in the following manner:
 - (1) Perforate the 5-1/2" casing in the approximate interval of 8596'-8622' and 8634'-8660' in the Bagley Upper Pennsylvanian Gas Zone.
 - (2) Run two strings of 2-1/16" OD tubing with a Model "D" production packer, dual string packer and retrievable flow valves on lower string of tubing. Acidize the gas zone with 500 gallons mud acid if necessary.
 - (3) Produce the Bagley Pennsylvanian oil through the lower tubing string and the Bagley-Upper Pennsylvanian gas through the upper tubing string.

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. It is shown that $f(x)$ is a constant function, and its value is determined by the initial condition $f(0)$.

2. In the second part, we consider the problem of finding the maximum value of the function $f(x)$ on the interval $[0, 1]$. It is shown that the maximum value is attained at $x = 0$ and is equal to $f(0)$.

3. The third part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. It is shown that $f(x)$ is a constant function, and its value is determined by the initial condition $f(0)$.

4. In the fourth part, we consider the problem of finding the maximum value of the function $f(x)$ on the interval $[0, 1]$. It is shown that the maximum value is attained at $x = 0$ and is equal to $f(0)$.

5. The fifth part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. It is shown that $f(x)$ is a constant function, and its value is determined by the initial condition $f(0)$.

6. In the sixth part, we consider the problem of finding the maximum value of the function $f(x)$ on the interval $[0, 1]$. It is shown that the maximum value is attained at $x = 0$ and is equal to $f(0)$.

7. The seventh part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. It is shown that $f(x)$ is a constant function, and its value is determined by the initial condition $f(0)$.

8. In the eighth part, we consider the problem of finding the maximum value of the function $f(x)$ on the interval $[0, 1]$. It is shown that the maximum value is attained at $x = 0$ and is equal to $f(0)$.

9. The ninth part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. It is shown that $f(x)$ is a constant function, and its value is determined by the initial condition $f(0)$.

January 28, 1958

- D. That the granting of this application for permission to produce the well as a dual completion with oil from the Bagley Pennsylvanian and gas from the Bagley-Upper Pennsylvanian is in the interest of conservation and the protection of correlative rights.
- E. That the applicant will comply with all the rules and regulations of the New Mexico Oil Conservation Commission to maintain separation of production from the two pay zones.
- F. That the manner and method of the proposed dual completion is mechanically feasible and practical.
- G. That by copy of this letter of application by registered mail, all offset operators are notified of the proposed dual completion.

Therefore, Amerada Petroleum Corporation requests that the Oil Conservation Commission grant administrative approval to the applicant to dually complete the subject well as proposed in this application.

Respectfully submitted,

AMERADA PETROLEUM CORPORATION

By

D. C. Capps
D. C. Capps
District Superintendent

PJP/vh

STATE OF NEW MEXICO §
COUNTY OF Lea §

Before me, the undersigned authority, on this day personally appeared D. C. Capps, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that the same is a true and correct statement of the facts therein recited.

Subscribed and sworn to before me on this the 28th day of January, 1958.

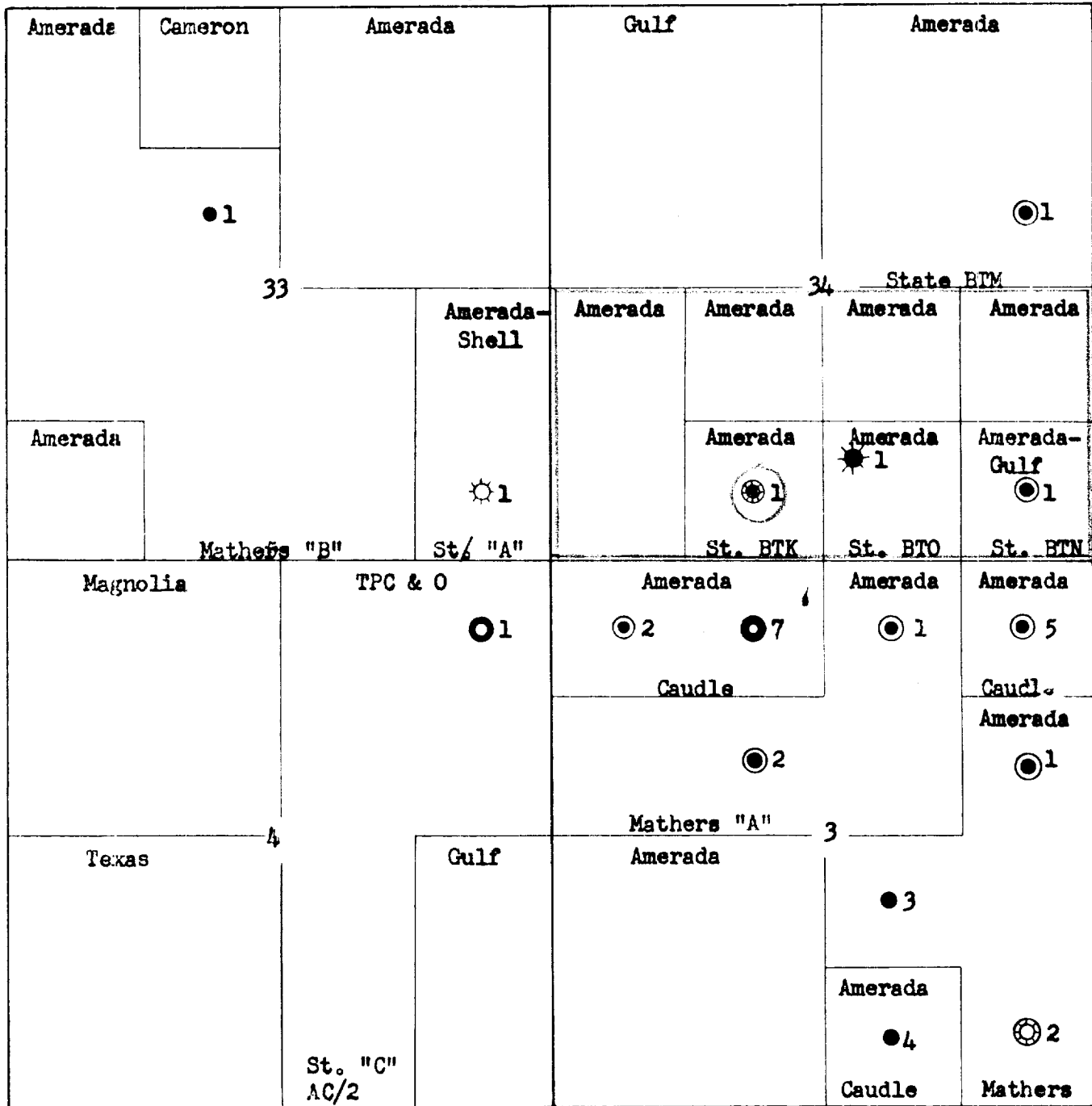
My Commission Expires 8-30-61

Samuel E. Keily
Notary Public in and for
Lea County, New Mexico

cc: Texas Pacific Coal & Oil Company
Box 1688, Hobbs, New Mexico

Gulf Oil Corporation
Box 1667, Hobbs, New Mexico

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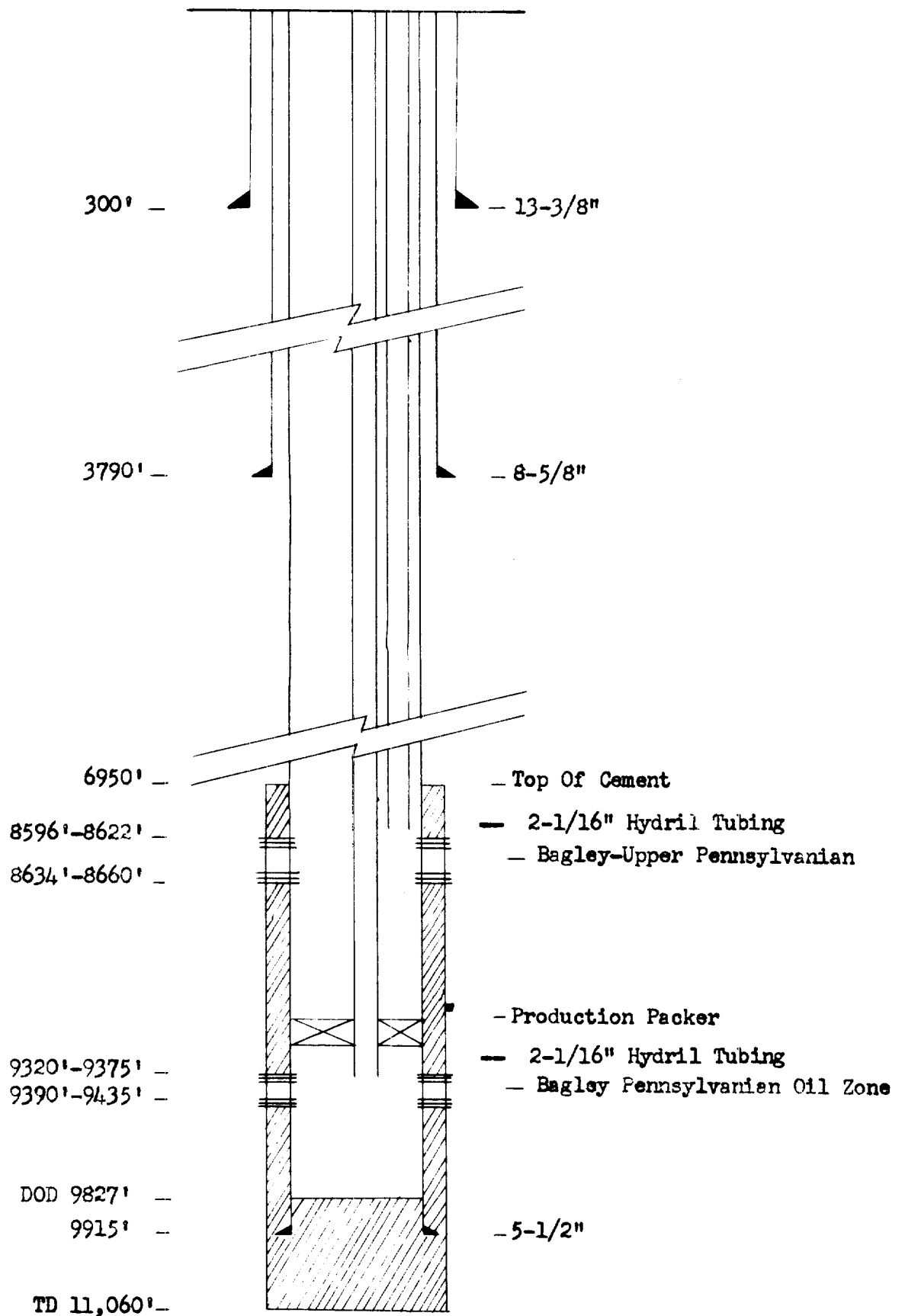
AMERADA PETROLEUM CORPORATION

State BTK No. 1

SE/4 of SW/4 of Sec. 34, T-11-S, R-33-E

- Devonian Oil
- ☼ Bagley-Lower Penn Gas
- ⊗ Bagley-Upper Penn Gas
- Bagley Penn Oil
- ☼ Bagley Penn-Bagley Lower Penn Dual
- ⊗ Bagley Penn-Bagley Upper Penn Dual
- Bagley Upper-Bagley Lower Penn Dual

EXHIBIT "A"



AMERADA PETROLEUM CORPORATION

Dual Completion

State BT'K' No. 1

EXHIBIT "B"