

COMPASS EXPLORATION, INC.
1645 COURT PLACE
DENVER 2, COLORADO

October 14, 1960

Secretary
Federal Power Commission
Washington 25, D. C.

Dear Sir:

Enclosed herewith are an original and seven conformed copies of Compass Exploration, Inc.'s application for amendment of certificate of public convenience and necessity pursuant to Section 7 of the Natural Gas Act. This application relates to deliveries of gas from our Dakota gas well, the #2-35 Aztec, located in Section 35, Township 30 North, Range 14 West, San Juan County, New Mexico.

Also enclosed are three copies of the supplemental gas purchase agreement dated October 12, 1960 between Compass Exploration, Inc., as Seller, and El Paso Natural Gas Company, as Buyer, submitted as Supplement No. 1 to Compass Exploration, Inc. FPC Gas Rate Schedule No. 3, to cover the deliveries of gas made the subject of the enclosed certificate application; and three copies of the statement of estimated deliveries and billing for the first month of service.

The attention of the Commission is directed to the fact that the Applicant has invoked the provisions of Section 157.28 of the Commission's Rules and Regulations and proposes to commence the sales of gas covered by such application upon receipt of notice from the Secretary of the Commission that the certificate amendment application and related supplemental rate schedule have been accepted for filing.

Copies of the application have been forwarded to El Paso Natural Gas Company and the New Mexico Oil Conservation Commission.

Respectfully submitted,

COMPASS EXPLORATION, INC.

George Aubrey
George Aubrey
President

GA/lo
Encl.

cc: El Paso Natural Gas Company
New Mexico Oil Conservation Commission

UNITED STATES OF AMERICA

FEDERAL POWER COMMISSION

IN THE MATTER OF)

Application of)

Compass Exploration, Inc. for)

Amendment of Certificate of Public)

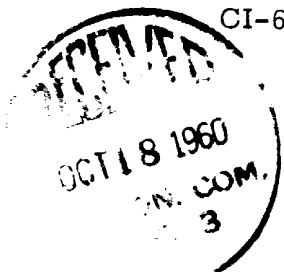
Convenience and Necessity)

DOCKET NO. G-_____

Compass Exploration, Inc., herein referred to as Applicant, pursuant to Section 7 of the Natural Gas Act as amended and Sections 154.91 and 157.23(b) of the Commission's Rules and Regulations, hereby makes application to the Commission for amendment of certificate of public convenience and necessity to authorize the additional sales of natural gas hereinafter described, and in support of such application respectfully states and shows the following:

1.

On August 17, 1960, Applicant entered into a gas purchase agreement to cover sales by Applicant to El Paso Natural Gas Company of natural gas produced from the Dakota formation underlying certain lands located in San Juan County, New Mexico. Certificate of public convenience and necessity authorizing the sales contemplated by that contract was granted to Applicant by the Commission in Docket No. CI-61-299, and the gas purchase agreement of August 17, 1960 was



concurrently herewith as Supplement No. 1 to Compass Exploration, Inc.
FPC Rate Schedule No. 3.

3.

The information called for in Item (4) of Section 157.24(a) of the Commission's Rules and Regulations was furnished in Applicant's original application and is incorporated herein by reference thereto. The location of the well referred to herein is shown on the map hereto attached as Exhibit "A".

The terms and conditions of the supplemental gas purchase agreement of October 12, 1960, are the same as those set out in the contract summary in Applicant's original application with respect to the base contract dated August 17, 1960, and are therefore not repeated here.

4.

The following exhibits are submitted herewith as a part of this application:

Exhibit "A" - map showing location of the additional well from which gas is to be sold by Applicant

Exhibit "B" - copy of supplemental gas purchase agreement dated October 12, 1960, between Applicant as Seller and El Paso Natural Gas Company as Buyer, which contract is incorporated herein by reference to copies filed by Applicant as Supplement No. 1 to Compass Exploration, Inc. FPC Rate Schedule No. 3.

WHEREFORE, Applicant respectfully requests that the Commission grant to it an amended certificate of public convenience and necessity authorizing the additional sales and deliveries of gas hereinbefore described.

Applicant further requests that the intermediate decision procedure be omitted and waives oral hearing and opportunity for filing exceptions to the decision of the Commission and requests that the application be disposed of pursuant to the provisions of Section 1.32(b) of the Rules and Regulations of the Commission regarding shortened procedures.

For the same reasons as set forth in its original application, Applicant invokes the provisions of Section 157.28 of the Commission's Rules and Regulations and proposes, upon notice of the filing of this application and the related supplemental rate schedule from the Secretary of the Commission, to proceed with the sale of gas as proposed hereby.

Respectfully submitted this 14th day of October, 1960.

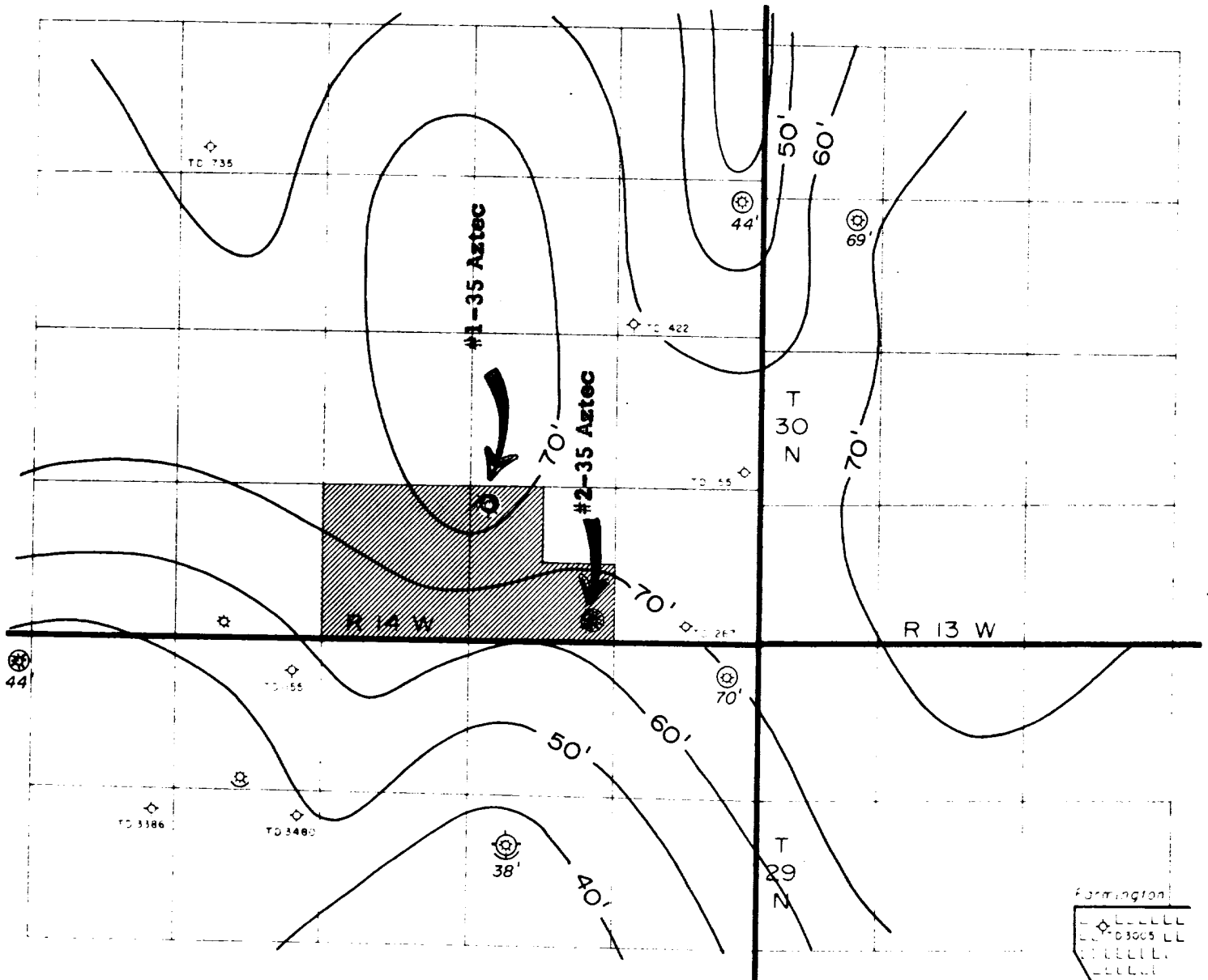
COMPASS EXPLORATION, INC.

ATTEST:

Ferraine M. O'Brien
Secretary

By George H. Hickey
President

Exhibit "A"
 Compass Exploration, Inc.
 #1-35 Aztec and #2-35 Aztec
 Sec. 35-30N-14W
 San Juan County, New Mexico



Compass Exploration

WEST FARMINGTON PROSPECT

SAN JUAN COUNTY, NEW MEXICO

ISOPACH OF NET EFFECTIVE DAKOTA SAND

C.I. 10'



Dakota Test



Mesaverde Test

STATEMENT OF ESTIMATED DELIVERIES AND
BILLING FOR FIRST MONTH OF SERVICE

Well:

Compass Exploration, Inc.
2-35 Aztec

Location:

Township 30 North, Range 14 - est,
San Juan County, New Mexico
Section 35: SE/4

Cross deliveries during the first month, in mcf -----	45,000 mcf
Price per mcf -----	12¢
Plus minimum per mcf for liquid products -----	01¢
Total Billing -----	\$ 5,850.00

Proposed date of commencement
of service -----

Forthwith upon notification by the Secretary
of the Commission that the certificate
amendment application and related supple-
mental rate schedule have been accepted
for filing.

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation

$$f(x) = \int_0^x \frac{1}{1+t^2} dt, \quad (1)$$

where x is a real number. It is shown that the function $f(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, it is proved that the function $f(x)$ has a horizontal asymptote at $y = \frac{\pi}{2}$ as $x \rightarrow \infty$ and $y = -\frac{\pi}{2}$ as $x \rightarrow -\infty$.

2. In the second part of the paper, we consider the function $g(x)$ defined by the equation

$$g(x) = \int_0^x \frac{1}{1+t^4} dt, \quad (2)$$

where x is a real number. It is shown that the function $g(x)$ is increasing and concave down on the interval $(-\infty, \infty)$.

3. In the third part of the paper, we consider the function $h(x)$ defined by the equation

$$h(x) = \int_0^x \frac{1}{1+t^6} dt, \quad (3)$$

where x is a real number. It is shown that the function $h(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, it is proved that the function $h(x)$ has a horizontal asymptote at $y = \frac{\pi}{2\sqrt{3}}$ as $x \rightarrow \infty$ and $y = -\frac{\pi}{2\sqrt{3}}$ as $x \rightarrow -\infty$.