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LAND OFFICE	
TRANSPORTER	OIL GAS
OPERATOR	
PRORATION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Eff. 2-1-71,
Pan American Petro. Corp.
has changed its name to
AMOCO PROD. CO.

I. Operator	
PAN AMERICAN PETROLEUM CORPORATION	
Address P. O. Box 480, Farmington, New Mexico	
Reason(s) for filing (Check proper box)	Other (Please explain)
New Well <input checked="" type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Quine Gas Unit	Well No. 1	Pool Name, Including Formation Basin Dakota	Kind of Lease State, Federal or Fee Fee
Location			
Unit Letter I	1700	Feet From The South	Line and 1130 Feet From The East
Line of Section 31	Township 30N	Range 12W	NMPM, San Juan County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)	
Plateau, Incorporated	P. O. Box 108, Farmington, New Mexico	
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)	
El Paso Natural Gas Company	P. O. Box 990, Farmington, New Mexico	
If well produces oil or liquids, give location of tanks.	Unit I	Sec. 31
	Twp. 30N	Rge. 12W
	Is gas actually connected? No	When

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input type="checkbox"/>	Gas Well <input checked="" type="checkbox"/>	New Well <input checked="" type="checkbox"/>	Workover <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Same Res'v. <input type="checkbox"/>	Diff. Res'v. <input type="checkbox"/>
Date Spudded 3-24-65	Date Compl. Ready to Prod. 4-27-65		Total Depth 6173		P.B.T.D. 6134			
Pool Basin	Name of Producing Formation Dakota		Top Oil/Gas Pay 6004		Tubing Depth 6006			
Perforations 6086-6110 with 2 shots per foot. 6004-6016, 6026-6034 with 3 shots per foot.					Depth Casing Shoe 6173			
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
12-1/4"	8-5/8"		517		450 Sacks			
7-7/8"	4-1/2"		6173		1400 Sacks			
	2"		6006					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D 4900	Length of Test 3 hours	Bbls. Condensate/MMCF --	Gravity of Condensate
Testing Method (pitot, back pr.) Back Pressure	Tubing Pressure 400	Casing Pressure 1250	Choke Size 3/4"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

ORIGINAL SIGNED BY
L. R. Turner

(Signature)

Administrative Clerk

(Title)

May 4, 1965

(Date)

OIL CONSERVATION COMMISSION

APPROVED MAY 7 1965, 19

BY Original Signed Emery C. Arnold

TITLE Supervisor Dist. # 8

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

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

Separate Forms C-104 must be filed for each pool in multiply completed wells.

TABULATION OF DEVIATION TESTS

PAN AMERICAN PETROLEUM CORPORATION

Quine Gas Unit Well No. 1

<u>DEPTH</u>	<u>DEVIATION</u>
70'	3/40
904	1-1/4
1300	1-3/4
1694	1-3/4
2233	3/4
1815	3/4
2600	3/4
2780	1/4
3183	1/2
3244	1
3630	1
3939	3/4
4290	1
4693	1
4878	1
5271	3/4
5361	1
5758	1/2
5920	1/2
6025	1
6170	1

A F F I D A V I T

THIS IS TO CERTIFY that to the best of my knowledge the above tabulation details the deviation test taken on PAN AMERICAN PETROLEUM CORPORATION'S **Quine Gas Unit Well No. 1, Basin Dakota Field, located in the NE/4, SE/4 of Section 31, T-30-N, R-12-W, San Juan County, New Mexico.**

Signed *F. H. Hollingsworth*
Petroleum Engineer

THE STATE OF NEW MEXICO)
) SS.
COUNTY OF SAN JUAN)

BEFORE ME, the undersigned authority, on this day personally appeared **F. H. Hollingsworth** known to me to be Petroleum Engineer for Pan American Petroleum Corporation and to be the person whose name is subscribed to the above statement, who, being by me duly sworn on oath, states that he has knowledge of the facts stated herein and that said statement is true and correct.

SUBSCRIBED AND SWORN TO before me, a Notary Public in and for said County and State this 5th day of May, 1965.

S. K. Rutz
Notary Public

My Commission Expires February 23, 1969.



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

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

It is shown that the function $f(x)$ is increasing and concave down.

2. The second part of the paper is devoted to the study of the function $g(x)$ defined by the equation

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

It is shown that the function $g(x)$ is increasing and concave down.

3. The third part of the paper is devoted to the study of the function $h(x)$ defined by the equation

$$h(x) = \int_0^x \frac{1}{1+t^2} dt.$$

It is shown that the function $h(x)$ is increasing and concave down.

4. The fourth part of the paper is devoted to the study of the function $k(x)$ defined by the equation

$$k(x) = \int_0^x \frac{1}{1+t^2} dt.$$

It is shown that the function $k(x)$ is increasing and concave down.

5. The fifth part of the paper is devoted to the study of the function $l(x)$ defined by the equation

$$l(x) = \int_0^x \frac{1}{1+t^2} dt.$$

It is shown that the function $l(x)$ is increasing and concave down.

6. The sixth part of the paper is devoted to the study of the function $m(x)$ defined by the equation

$$m(x) = \int_0^x \frac{1}{1+t^2} dt.$$

It is shown that the function $m(x)$ is increasing and concave down.

7. The seventh part of the paper is devoted to the study of the function $n(x)$ defined by the equation

$$n(x) = \int_0^x \frac{1}{1+t^2} dt.$$

It is shown that the function $n(x)$ is increasing and concave down.

8. The eighth part of the paper is devoted to the study of the function $o(x)$ defined by the equation

$$o(x) = \int_0^x \frac{1}{1+t^2} dt.$$

It is shown that the function $o(x)$ is increasing and concave down.

9. The ninth part of the paper is devoted to the study of the function $p(x)$ defined by the equation

$$p(x) = \int_0^x \frac{1}{1+t^2} dt.$$

It is shown that the function $p(x)$ is increasing and concave down.

10. The tenth part of the paper is devoted to the study of the function $q(x)$ defined by the equation

$$q(x) = \int_0^x \frac{1}{1+t^2} dt.$$

It is shown that the function $q(x)$ is increasing and concave down.

11. The eleventh part of the paper is devoted to the study of the function $r(x)$ defined by the equation

$$r(x) = \int_0^x \frac{1}{1+t^2} dt.$$

It is shown that the function $r(x)$ is increasing and concave down.

12. The twelfth part of the paper is devoted to the study of the function $s(x)$ defined by the equation

$$s(x) = \int_0^x \frac{1}{1+t^2} dt.$$

It is shown that the function $s(x)$ is increasing and concave down.