

NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 12-1-55

Pool Basin		Formation Dehota		County San Juan	
Initial X		Annual		Date of Test 3-3-63	
Company PAN AMERICAN PETROLEUM CORPORATION		Lease Jaques Gas Unit "A"		Well No. 3	
Unit 0	Sec. 5	Twp. 29N	Range 9W	Purchaser	
Casing 4-1/2	Wt. 10.5	I.D. 4.032	Set at 6730	Perf. 6339-51	To 6630-42/6630-64
Tubing 2-3/8	Wt. 4.7	I.D. 1.993	Set at 6346	Perf. 6304	To 6310
Gas Pay:	From 6339	To 6464	L 6602	G .700	GL 4621
				Bar. Press. 12	
Producing Through:		Casing	Tubing X	Type Well - Single - Braden head - G.G. or G.O. Dual Single	
Date of Completion 4-28-63		Packer None		Reservoir Temp.	

OBSERVED DATA

Tested Through:						Prover <input type="checkbox"/>		Choke <input checked="" type="checkbox"/>		Meter <input type="checkbox"/>		Type of Taps	
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.			
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.				
SI	7 Days					1720		1720					
1.	2 Inch	.730	309			309	60° est.	332	60° est.	3 Hr.			
2.													
3.													
4.													
5.													

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _T	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF PD @ 15.025 psia
1.	12.3630		321	1.0000	.9230	1.039	3010
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 F_c _____ (1-e^{-S}) _____ P_c **1732** P_c² **2,999,824**

No.	$\frac{P_w}{P_t}$ psia	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$
1.						712,336	2,287,488		
2.									
3.									
4.									
5.									

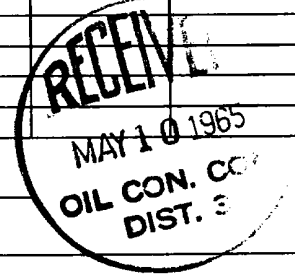
ABSOLUTE POTENTIAL: **4679** MCFPD; n **.73**

COMPANY **PAN AMERICAN PETROLEUM CORPORATION** WITNESSED _____

ADDRESS **Box 480, Farmington, New Mexico** COMPANY _____

AGENT AND TITLE **F. L. Nabors, District Engineer** By _____

ORIGINAL SIGNED BY
F. W. Foell



STATE OF NEW MEXICO		
REGISTRATION COMMISSION		
DISTRICT OFFICE		
NUMBER	IS	5
DATE		
SIGNATURE		
FILE	/	/
CLASS		
EXPIRATION DATE		
TRANSPORTER	OIL	
	GAS	
REGISTRATION OFFICE		
OPERATOR	/	

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND

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)
New Well ☒ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐
Other (Please explain)

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Jaquez Gas Unit "A"	Well No. 3	Pool Name, Including Formation Basin Dakota	Kind of Lease State, Federal or Fee Fee
Location Unit Letter G ; 1620 Feet From The North Line and 1900 Feet From The East Line of Section 5 , Township 29-N Range 9-W , 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"/> Plateau, Inc.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 108, Farmington, New Mexico		
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> El Paso Natural Gas Company	Address (Give address to which approved copy of this form is to be sent) P. O. Box 990, Farmington, New Mexico		
If well produces oil or liquids, give location of tanks.	Unit G	Sec. 5	Twp. 29-N
	Rge. 9-W	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	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res ^{ty} .	Diff. Res ^{ty} .
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Date Spudded March 31, 1965	Date Compl. Ready to Prod. April 28, 1965	Total Depth 6750'		P.B.T.D. 6774'				
Pool Basin	Name of Producing Formation Dakota	Top xxx Gas Pay 6545		Tubing Depth 6546				
Perforations 6630-42, 6650-64 with 4 shots per foot. 6539-51 with 4 shots per foot.				Depth Casing Shoe 6750				
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
13-3/4"	10-3/4"		300		250			
9-7/8"	7-5/8"		2375		600			
6-3/4"	4-1/2"		6750		500			

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
RECEIVED MAY 7 1965 OIL CON. COM. DIST. 3			
GAS WELL			
Actual Prod. Test-MCF/D 3700	Length of Test 3 Hours	Bbls. Condensate/MMCF -	Gravity of Condensate -
Testing Method (pitot, back pr.) Back Pressure	Tubing Pressure 300	Casing Pressure 875	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 5, 1965

(Date)

OIL CONSERVATION COMMISSION

APPROVED **MAY 7 1965**

BY **Original Signed Emery C. Arnold**

TITLE **Supervisor Dist. # 3**

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
JAEQUEZ GAS UNIT "A" NO. 3

<u>DEPTH</u>	<u>DEVIATION</u>
300 '	1/2 °
1350	1-
1598	1-1/4
2080	1-
2777	1/2
3168	3/4
3554	3/4
4360	1-
4760	3/4
5162	1-
5540	1-3/4
5950	2-
6359	2-1/4
6750	2-1/4

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 **Jaequez Gas Unit "A" No. 3** located in the SW/4, SE/4 Section 5, T-29-N, R-9-W, San Juan County, New Mexico.

Signed Frank H. Hollingsworth
 Petroleum Engineer

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

BEFORE ME, the undersigned authority, on this day personally appeared **Frank 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. Dietz
 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 $f(x) = \int_0^x f(t) dt$. It is shown that $f(x)$ is a constant function, and its value is determined by the initial condition $f(0) = 1$.

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 1.

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 $f(0) = 1$.

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 1.

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 $f(0) = 1$.