

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Pan American Petroleum Corporation Lease Jaquez Gas Unit "A"

Well No. 1 Unit Letter G S 5 T 29N R 9W Pool Blanco-Mesaverte

County San Juan Kind of Lease (State, Fed. or Patented) Patented

If well produces oil or condensate, give location of tanks: Unit G S 5 T 29N R 9W

Authorized Transporter of Oil or Condensate El Paso Natural Gas Products Company
(by Contrast Truck)

Address Box 1565, Farmington, New Mexico
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas _____
Address _____
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well _____ ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership _____ () Other Temporary Change in
Condensate Transporter (X)
(Give explanation below)

Remarks:

Temporary change in transporter is being filed to sell condensate to El Paso Natural Gas Products Company because of Four States-Western Oil Company's inability to purchase condensate due to lack of storage facilities at refinery. This is a temporary arrangement and will not effect permanent agreement with Four States-Western Oil Refining Company as per Form C-110 filed February 13, 1958.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 10th day of March 19 58

ORIGINAL SIGNED BY 11 1958
D. J. SCOTT
N. COM. 3

Approved MAR 11 1958 19 58

Title Field Clerk

OIL CONSERVATION COMMISSION

Company Pan American Petroleum Corporation

By Original Signed Emery C. Arnold

Address Box 487, Farmington, New Mexico

Title Supervisor Dist. # 3

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received <u>5</u>		
DISTRIBUTION		
	NO. TRANSMITTED	
Operator	<u>2</u>	
Safety	<u>1</u>	
Production Office		
State Land Office		
U. S. G. S.		
Transporter	<u>1</u>	
File	<u>1</u>	<u>✓</u>

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator PAN AMERICAN PETROLEUM CORPORATION Lease JACQUEZ GAS UNIT 'A'

Well No. 1 Unit Letter G S 5 T29N R 9W Pool Blanco-Masaverde

County San Juan Kind of Lease (State, Fed. or Patented) Patented

If well produces oil or condensate, give location of tanks: Unit S T R

Authorized Transporter of Oil or Condensate _____

Address _____

(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas El Paso Natural Gas Company

Address Farmington, New Mexico

(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well _____ ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership _____ () Other _____ (X)

Remarks: _____ (Give explanation below)

Change of operating name from "Stanolind Oil and Gas Company"
to "Pan American Petroleum Corporation".

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 1st day of February 1957

Approved FEB 1 1957 19

OIL CONSERVATION COMMISSION

By Original Signed Emery C. Arnold

Title Oil and Gas Inspector Dist. #3

ORIGINAL SIGNED BY
By D. J. SCOTT

Title Field Clerk

Company Pan American Petroleum Corporation

Address Box 487

Farmington, New Mexico



OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received		5-
DISTRIBUTION		
Operator	2	
Engineer	1	
Inspector		
Chief of Party		
Geologist		
Transporter	1	
File	1	✓
Total		5

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool Alamo-Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 2-28-58
Operator Pan American Petroleum Corp. Lease Jaguar Gas Well #1 Well No. 1
Unit 6 Sec. 5 Twp. 27N Rge. 9E Pay Zone: From 3004 To 4000
Casing: OD 7" WT. 23 Set At 3004 Tubing: OD 2 3/8" WT. 4.75 T. Perf. 4000
Produced Through: Casing 1 Tubing 1 Gas Gravity: Measured 0.690 Estimated 0.690
Date of Flow Test: From 2/2/58 To 2/2/58 * Date S.I.P. Measured 2/15/58
Meter Run Size 4" Orifice Size 2.000" Type Chart 2 1/2 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 430 psig + 12 = 440 psia (a)
Flowing tubing pressure (Dwt) 397 psig + 12 = 409 psia (b)
Flowing meter pressure (Dwt) 390 psig + 12 = 402 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 4.00 psig + 12 = 412 psia (d)
Square root chart reading (4.00)² x spring constant 15 = 60 psia (d)
Meter error (c) - (d) or (d) - (c) ± = -12 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 17 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading 4.00 psig + 12 = 412 psia (g)
Square root chart average reading (4.00)² x sp. const. 15 = 60 psia (g)
Corrected seven day avge. meter press. (pf) (g) + (e) = 400 psia (h)
P_t = (h) + (f) = 417 psia (i)
Wellhead casing shut-in pressure (Dwt) 475 psig + 12 = 487 psia (j)
Wellhead tubing shut-in pressure (Dwt) 475 psig + 12 = 487 psia (k)
P_c = (j) or (k) whichever well flowed through = 487 psia (l)
Flowing Temp. (Meter Run) 46 °F + 460 = 506 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 243.5 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{1204}{(Integrated)} \times \left(\frac{\sqrt{(c)} = 21.1301}{\sqrt{(d)} = 23.2779} = 0.9074 \right) = 1204 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{1204}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = 1204 \frac{1}{\left[\frac{487^2 - 243.5^2}{487^2 - 390^2} \right]^1} = 1507 \text{ MCF/da.}$$

SUMMARY

P_c = 487 psia
Q = 1204 Mcf/day
P_w = 390 psia
P_d = 243.5 psia
D = 1507 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By L. E. BAUER, JR.
Title FIELD ENGINEER
Witnessed by _____
Company _____

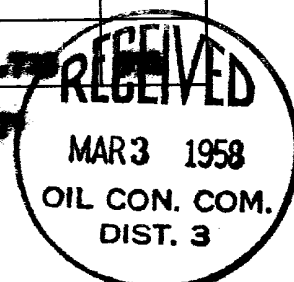
* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3.22</u>	<u>0.105</u>	<u>120,560</u>	<u>26,077</u>	<u>392,611</u>	<u>392,611</u>	<u>390</u>

DELIVERABILITY TEST AFTER FRICTION

* LINE: 5" 154 9733-4577
* PRESS: 3044-4542



OK

