

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 W. D. Heath "B"  
Well No. 1 Unit Letter A S 31 T 30N R 9W Pool Blanco-Mesaverte  
County San Juan Kind of Lease (State, Fed. or Patented) Federal  
If well produces oil or condensate, give location of tanks: Unit A S 31 T 30N R 9W  
Authorized Transporter of Oil or Condensate Four States-Western Oil Refining Company  
(By Contract Truck)  
Address Box 1877, Farmington, New Mexico  
(Give address to which approved copy of this form is to be sent)  
Authorized Transporter of Gas El Paso Natural Gas Company  
Address Box 997, 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 Workover (X)  
Remarks: (Give explanation below)

W. D. Heath "B", Well No. 1, has recently been repaired, and after workover well started producing condensate; this form is being filed to authorize Four States-Western Oil Refining Company to haul condensate from the above well.

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

Executed this the 6th day of December 1957

ORIGINAL SIGNED BY

By D. J. SCOTT

Approved DEC 9 1957 1957

Title Field Clerk

OIL CONSERVATION COMMISSION

Company Pan American Petroleum Corporation

By Original Signed Emery C. Arnold

Address Box 187, Farmington, New Mexico

Title Supervisor Dist. # 3



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 Elmore-Mesa Verde Formation Mesa Verde County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 2-20-58  
Operator PAN AMERICAN PETROLEUM CORP. Lease U. S. Smith "B" Well No. 1  
Unit A Sec. 22 Twp. 30N Rge. 7W Pay Zone: From 1325 To 1400  
Casing: OD 7" WT. 200 Set At 1030 Tubing: OD 2-3/8" WT. 4.7 T. Perf. 4750  
Produced Through: Casing  Tubing X Gas Gravity: Measured 0.490 Estimated   
Date of Flow Test: From 1/16/58 To 1/23/58 \* Date S.I.P. Measured 1-20-58  
Meter Run Size 4 Orifice Size 2.000 Type Chart 2-1/2" Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 300 psig + 12 = 312 psia (a)  
Flowing tubing pressure (Dwt) 300 psig + 12 = 312 psia (b)  
Flowing meter pressure (Dwt) 300 psig + 12 = 312 psia (c)  
Flowing meter pressure (meter reading when Dwt. measurement taken:  
Normal chart reading 7.15 psig + 12 = 312 psia (d)  
Square root chart reading (7.15)<sup>2</sup> x spring constant 20 = 312 psia (d)  
Meter error (c) - (d) or (d) - (c) ± = 0 psi (e)  
Friction loss, Flowing column to meter:  
(b) - (c) Flow through tubing; (a) - (c) Flow through casing = 20 psi (f)  
Seven day average static meter pressure (from meter chart):  
Normal chart average reading 7.00 psig + 12 = 312 psia (g)  
Square root chart average reading (7.00)<sup>2</sup> x sp. const. 20 = 312 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 312 psia (h)  
P<sub>t</sub> = (h) + (f) = 332 psia (i)  
Wellhead casing shut-in pressure (Dwt) 300 psig + 12 = 312 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 300 psig + 12 = 312 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 312 psia (l)  
Flowing Temp. (Meter Run) 70 °F + 460 = 530 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) = 156 psia (n)

Q = 1300 X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{22.7236}{22.7236} = 1.0000 \right) = 1300$  MCF/da  
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1300  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 1.366 = 1300$  MCF/da.

SUMMARY

P<sub>c</sub> = 312 psia  
Q = 1300 Mcf/day  
P<sub>w</sub> = 312 psia  
P<sub>d</sub> = 156 psia  
D = 1300 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION  
By L. E. BROWN, JR. RMT Senior Jr.  
Title FIELD ENGINEER  
Witnessed by   
Company

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

REMARKS OR FRICTION CALCULATIONS

| GL          | (1-e <sup>-S</sup> ) | (F <sub>c</sub> Q) <sup>2</sup> | (FcQ) <sup>2</sup> (1-e <sup>-S</sup> )<br>R <sup>2</sup> | P <sub>t</sub> <sup>2</sup><br>(Column i) | P <sub>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|-------------|----------------------|---------------------------------|---|---|--|----------------|
| <u>3000</u> | <u>0.212</u>         | <u>199.435</u>                  | <u>42.270</u>   | <u>279.021</u>                            | <u>321.291</u>                               | <u>312</u>     |

DELIVERABILITY TEST AFTER METERING

\* LINE: 9" 145 200-400  
PRESS: 4200-4500



OK