

Initial Deliverability  
TestForm C-122-A  
Revised April 20, 1955NEW 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 Basin Formation Dakota County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 10-24-61  
Operator FUBCO PETROLEUM CORP Lease State Well No. 28  
Unit B Sec. 36 Twp. 29N Rge. 10W Pay Zone: From 6378 To 6604  
Casing: OD 5 1/2" WT. 15 1/2 Set At 6604 Tubing: OD 2" WT. 4.7 T. Perf. 6551  
Produced Through: Casing          Tubing X Gas Gravity: Measured .674 Estimated           
Date of Flow Test: From 9-20-61 To 9-23-61 \* Date S.I.P. Measured 20-5-61 5-23-61  
Meter Run Size 4" Orifice Size 1.75 Type Chart Eq. Rt. Type Taps Flange

## OBSERVED DATA

Flowing casing pressure (Dwt) 755 psig + 12 = 767 psia (a)  
Flowing tubing pressure (Dwt) 660 psig + 12 = 672 psia (b)  
Flowing meter pressure (Dwt) 480 psig + 12 = 492 psia (c)  
Flowing meter pressure (meter reading when Dwt. measurement taken:  
Normal chart reading          psig + 12 =          psia (d)  
Square root chart reading (7.0)<sup>2</sup> x spring constant 10 = 490 psia (d)  
Meter error (c) - (d) or (d) - (c)          = 12 psi (e)  
Friction loss, Flowing column to meter:          = 180 psi (f)  
(b) - (c) Flow through tubing: (a) - (c) Flow through casing  
Seven day average static meter pressure (from meter chart):  
Normal chart average reading          psig + 12 =          psia (g)  
Square root chart average reading (7.15)<sup>2</sup> x sp. const. 10 = 511 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 513 psia (h)  
P<sub>t</sub> = (h) + (f) = 693 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1951 psig + 12 = 1963 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1951 psig + 12 = 1963 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 1963 psia (l)  
Flowing Temp. (Meter Run) 80 °F + 460 = 540 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) = 982 psia (n)

## FLOW RATE CALCULATION

$$Q = \frac{1874}{(\text{integrated})} \times \left( \frac{\sqrt{(c) 492} = 221,811}{\sqrt{(d) 490} = 221,359} = 1.002 \right) = 1,877 \text{ MCF/da}$$

## DELIVERABILITY CALCULATION

$$D = Q \frac{1877}{\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{2,889,045}{3,287,481} \right]^n (0.8788)^{75} 0.9075} = 1,703 \text{ MCF/da.}$$

## SUMMARY

P<sub>c</sub> = 1963 psia  
Q = 1877 Mcf/day  
P<sub>w</sub> = 752 psia  
P<sub>d</sub> = 982 psia  
D = 1703 Mcf/day

"D" at 512 = 2,005

Company FUBCO PETROLEUM CORP  
By Don E. Jamerson  
Title Field Foreman  
Witnessed by Jack Dunning  
Company Fubco Petroleum Corp.

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

## REMARKS OR FRICTION CALCULATIONS

| GL   | (1-e <sup>-8</sup> ) | (F <sub>c</sub> Q) <sup>2</sup> | (F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-8</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> |
|------|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| 4415 | 0.275                | 311,416                         | 85,639                                                                 | 480,249                                   | 565,888                                      | 752            |

