

Initial Deliverability Test

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 Undesignated Formation Dakota County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed February 2, 1960  
Operator El Paso Gas Transmission Lease Walter G. Berger Well No. 3  
Unit 1 Sec. 22 Twp. 26N Rge. 11W Pay Zone: From 6074 To 6121  
Casing: OD 7" WT. 20 Set At 6263' Tubing: OD 2 WT. 4.7 T. Perf. 6074'  
Produced Through: Casing          Tubing X Gas Gravity: Measured .693 Estimated           
Date of Flow Test: From 1/10/60 To 1/16/60 \* Date S.I.P. Measured August 21, 1959  
Meter Run Size 1" Orifice Size 1.750 Type Chart SR Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) Fraser psig + 12 =          psia (a)  
Flowing tubing pressure (Dwt)          psig + 12 = 522 psia (b)  
Flowing meter pressure (Dwt)          psig + 12 = 590 psia (c)  
Flowing meter pressure (meter reading when Dwt. measurement taken:  
Normal chart reading          psig + 12 =          psia (d)  
Square root chart reading (          )<sup>2</sup> x spring constant          =          psia (d)  
Meter error (c) - (d) or (d) - (c)          ± =          psi (e)  
Friction loss, Flowing column to meter:  
(b) - (c) Flow through tubing; (a) - (c) Flow through casing = 98 psi (f)  
Seven day average static meter pressure (from meter chart):  
Normal chart average reading          psig + 12 =          psia (g)  
Square root chart average reading ( 6.95 )<sup>2</sup> x sp. const. 1000 = 48 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 48 psia (h)  
P<sub>t</sub> = (h) + (f) = 96 psia (i)  
Wellhead casing shut-in pressure (Dwt) Fraser psig + 12 =          psia (j)  
Wellhead tubing shut-in pressure (Dwt)          psig + 12 = 1942 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 1942 psia (l)  
Flowing Temp. (Meter Run) 72 °F + 460 = 532 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) = 971 psia (n)

Q = 1519 (integrated) X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{        }}{\sqrt{(d)}} = \text{        }} \right)^* = \text{        }$  MCF/da

DELIVERABILITY CALCULATION

D = Q 1519  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{        }$  MCF/da  
3400000 .869 1321

SUMMARY

P<sub>c</sub> = 1942 psia Company El Paso Gas Transmission Co.  
Q = 1519 Mcf/day By J. J. Lacey  
P<sub>w</sub> = 584 psia Title District Engineer  
P<sub>d</sub> = 971 psia Witnessed by           
D = 1321 Mcf/day Company         

\* 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> ) R <sup>2</sup>	P <sub>t</sub> <sup>2</sup> (Column j)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
<u>4200</u>	<u>.95</u>	<u>204000</u>	<u>53989</u>	<u>207296</u>	<u>311205</u>	<u>584</u>

9209

202976

53949

311146

584

OK

~~70/6/60~~

MEMORANDUM FOR THE RECORD

DATE: 10/15/54

TO: SAC, NEW YORK

FROM: SAC, NEW YORK

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