

**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 Basin Dakota Formation Dakota County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 5-13-61  
Operator British-American Oil Prod. Co. Lease Ballerton Well No. 7  
Unit X Sec. 11 Twp. 27N Rge. 11W Pay Zone: From 6441 To 6493  
Casing: OD 8-7/8" WT. 6.4 Set At 6645 Tubing: OD None WT. None T. Perf. 6441  
Produced Through: Casing X Tubing None Gas Gravity: Measured 0.689 Estimated None  
Date of Flow Test: From 4-6-61 To 4-14-61 \* Date S.I.P. Measured 1-12-61  
Meter Run Size 4" Orifice Size 2.999 Type Chart L-10 Type Taps Flanged

OBSERVED DATA

Flowing casing pressure (Dwt) 530 psig + 12 = 542 psia (a)  
Flowing tubing pressure (Dwt) (Tubingless completion) psig + 12 = None psia (b)  
Flowing meter pressure (Dwt) 506 psig + 12 = 518 psia (c)  
Flowing meter pressure (meter reading when Dwt. measurement taken):  
Normal chart reading 7.13 psig + 12 = 506 psia (d)  
Square root chart reading (7.13)<sup>2</sup> x spring constant 10 = 506 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 = 24 psi (f)  
Seven day average static meter pressure (from meter chart):  
Normal chart average reading 7.10 psig + 12 = 504 psia (g)  
Square root chart average reading (7.10)<sup>2</sup> x sp. const. 10 = 504 psia (g)  
Corrected seven day avge. meter press. (P<sub>f</sub>) (g) + (e) = 516 psia (h)  
P<sub>t</sub> = (h) + (f) = 530 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1900 psig + 12 = 1912 psia (j)  
Wellhead tubing shut-in pressure (Dwt) None psig + 12 = None psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 1912 psia (l)  
Flowing Temp. (Meter Run) 85 °F + 460 = 545 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) = 956 psia (n)

Q = 1295 (Integrated) X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = 22.7761 = 1.6098} \right) = 1298 \text{ MCF/da}$

D = Q 1298  $\left[ \frac{\text{DELIVERABILITY CALCULATION}}{\left( \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^n = 0.8954} \right] = 1110.1 \text{ MCF/da}$

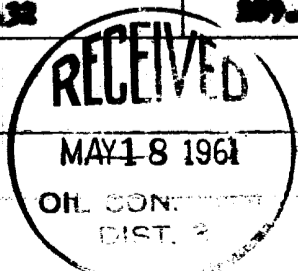
SUMMARY

P<sub>c</sub> = 1912 psia Company The British-American Oil Producing Co.  
Q = 1298 Mcf/day Original signed by Thomas M. Hogan  
P<sub>w</sub> = 551 psia Title District Superintendent  
P<sub>d</sub> = 956 psia Witnessed by Frank L. Renard  
D = 1110.1 Mcf/day Company The British-American Oil Producing Co.

- \* 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>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-S</sup> ) R <sup>2</sup>	P <sub>t</sub> <sup>2</sup> (Column i)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
<u>4438</u>	<u>0.276</u>	<u>51.88</u>	<u>14.32</u>	<u>289.44</u>	<u>303.76</u>	<u>551</u>



DENVER, COLORADO  
RECEIVED  
MAY 15 1961  
MULTIPLY  
PRODUCTION