

3 NMOCC
1 Belco (Big Piney)
1 Belco (New York)

1 El Paso
1 Austral
1 File

Form C-122-A
Revised April 20, 1955

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 Co. Date Test Filed 8/13/65
Operator Belco Petroleum Corp. Lease Skelly State Well No. 1
Unit P Sec. 16 Twp. 27N Rge. 9W Pay Zone: From 6514 To 6610
Casing: OD 4 1/2" WT. 10.5# Set At 6788 Tubing: OD 2 3/8" WT. 4.7# T. Perf. 6583
Produced Through: Casing Tubing X Gas Gravity: Measured .648 Estimated
Date of Flow Test: From 7-11-65 To 7-19-65 * Date S.I.P. Measured 10-21-64
Meter Run Size 4" Orifice Size 1.250 Type Chart S.R. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 645 psig + 12 = 657 psia (a)
Flowing tubing pressure (Dwt) 565 psig + 12 = 577 psia (b)
Flowing meter pressure (Dwt) 486 psig + 12 = 498 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading psig + 12 = psia (d)
Square root chart reading (7.0) ² x spring constant 10 = 490 psia (d)
Meter error (c) - (d) or (d) - (c) ± = +8 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = +79 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading psig + 12 = psia (g)
Square root chart average reading () ² x sp. const. = 497 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 505 psia (h)
P_t = (h) + (f) = 584 psia (i)
Wellhead casing shut-in pressure (Dwt) 2051 psig + 12 = 2063 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2029 psig + 12 = 2041 psia (k)
P_c = (j) or (k) whichever well flowed through = 2063 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 1032 psia (n)

FLOW RATE CALCULATION

Q = 1087 (Integrated) x $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{1.0163}{1.0081} = 1.0081 \right) = 1096$ MCF/day

DELIVERABILITY CALCULATION

D = Q 1096 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{3,190,945}{3,886,562} = .8210 \right]^{.75} = 945$ MCF/day

SUMMARY

P_c = 2063 psia
Q = 1096 Mcf/day
P_w = 608 psia
P_d = 1032 psia
D = 945 Mcf/day

Company Belco Petroleum Corp.
By J. A. [Signature]
Title Consulting Engineer
Witnessed by
Company

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
4266	.267	106.184	28.351	341.056	369.407	608