

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 South Blanco Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 5/22/58
Operator SKELLY OIL COMPANY Lease Marshall "B" Well No. 1
Unit I Sec. 14 Twp. 27N Rge. 9W Pay Zone: From 2064 To 2122
Casing: OD 7" WT. - Set At 2175 Tubing: OD 1" WT. - T. Perf. 2085
Produced Through: Casing I Tubing - Gas Gravity: Measured .652 Estimated -
Date of Flow Test: From 5/1/58 To 5/8/58 * Date S.I.P. Measured 11/15/57
Meter Run Size 4" Orifice Size 1.000 Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² 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 _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.75) ² x sp. const. 5.00 = 228 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 228 psia (i)
Wellhead casing shut-in pressure (Dwt) 790 psig + 12 = 802 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 802 psia (l)
Flowing Temp. (Meter Run) 57 °F + 460 _____ = 517 ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 401 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/day}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 489 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n$.85 .8159 = .8412 = 411 MCF/day.

SUMMARY

P_c = 802 psia Company SKELLY OIL COMPANY
Q = 489 Mcf/day By Lee R. King
P_w = 228 psia Title Engineer
P_d = 401 psia Witnessed by _____
D = 411 Mcf/day Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	$\frac{(F_c Q)^2}{R^2}$ (1-e ^{-S})	P _t ² (Column 1)	P _t ² + R ²	P _w
			Negligible			