

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 - P. C. Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 6-30-58
Operator Skelly Oil Company Lease Paul Williams Well No. 1
Unit A Sec. 35 Twp. 26N Rge. 6W Pay Zone: From 2915 To 2971
Casing: OD 5 1/2 WT. 14 Set At 3016 Tubing: OD 2 3/4 WT. 4.70 T. Perf. 2915
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .689 Estimated _____
Date of Flow Test: From 6-7-58 To 6-15-58 * Date S.I.P. Measured 3-22-58
Meter Run Size 4" Orifice Size 1.250 Type Chart SR 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 (6.95) ² x sp. const. 5.00 = 242 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 242 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 760 psig + 12 = 772 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 772 psia (l)
Flowing Temp. (Meter Run) 63 °F + 460 _____ = 523 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 386 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^{1/2}$ = _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 490 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n$.8360^{.85} = 421 MCF/da.
 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{446,988}{534,530}$

SUMMARY

P_c = 772 psia
Q = 490 Mcf/day
P_w = 248 psia
P_d = 386 psia
D = 421 Mcf/day

Company Skelly Oil Company
By J. E. Campbell
Title District Superintendent
Witnessed by _____
Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
2008	.136	21.25	2.89	38,564	61,454	248



