

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 SJ
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed April 2, 1959
Operator Skelly Oil Company Lease G. R. Gentle Well No. 1
Unit N Sec. 14 Twp. 27N Rge. 9W Pay Zone: From 2186 To 2207
Casing: OD 7" WT. 17# Set At 2102 Tubing: OD 1 WT. 1.70 T. Perf. 2170
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .636 Estimated _____
Date of Flow Test: From 2-27-59 To 3-7-59 * Date S.I.P. Measured 2-8-59
Meter Run Size 4" Orifice Size 2.000" 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 (7.05) ² x sp. const. 5.00 _____ = 249 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 249 psia (i)
Wellhead casing shut-in pressure (Dwt) 650 psig + 12 = 662 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 662 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 _____ = 522 ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 331 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 905 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \cdot .8736^{.85} = .8915 = \text{_____} = \text{807 MCF/day.}$

SUMMARY

P _c =	<u>662</u>	psia	Company	<u>Skelly Oil Company</u>
Q =	<u>905</u>	Mcf/day	By	<u>P. E. Cosper</u>
P _w =	<u>249</u>	psia	Title	<u>District Superintendent</u>
P _d =	<u>331</u>	psia	Witnessed by	_____
D =	<u>807</u>	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	(F _c Q) ² (1-e ^{-S}) R ²	P _i ² (Column i)	P _i ² + F _i ²	P _w
			Negligible			