

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 Undesignated Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Southern Union Gas Company Date Test Filed May 10, 1957
Operator Humble Oil & Refining Co. Lease Jicarilla Apache Tribe "L" Well No. 4
Unit N Sec. 26 Twp. 25N Rge. 4W Pay Zone: From 3426 To 3472
Casing: OD 4-1/2" WT 116/lb. Set At 3518 Tubing: OD 2-3/8" WT 4.75/lb. Perf. 3414
Produced Through: Casing Tubing X Gas Gravity: Measured .704 Estimated
Date of Flow Test: From 3-8-57 To 3-16-57 * Date S.I.P. Measured July 30, 1956
Meter Run Size 4" Orifice Size 1" Type Chart Sq. Root 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 (6.25) ² x sp. const. 10 = 600 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 600 psia (i)
Wellhead casing shut-in pressure (Dwt) 1012 psig + 12 = 1024 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1010 psig + 12 = 1022 psia (k)
P_c = (j) or (k) whichever well flowed through = 1022 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 = 525 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 511 psia (n)

Q = 377 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{ }}{\text{ }} = \text{ } \right) = \text{ }$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION n=0.85 for Pictured Cliffs

D = Q 377 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{783.4}{980.0} \cdot (377)(1.292) = 487$ MCF/da.

SUMMARY

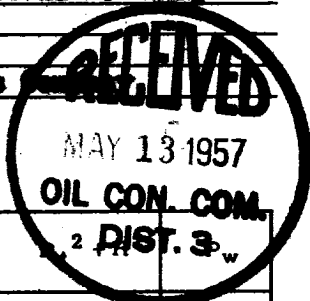
P_c = 1022 psia
Q = 377 Mcf/day
P_w = 601.5 psia
P_d = 511 psia
D = 487 Mcf/day

Company Humble Oil & Refining Company
By Russell M. Lilly Russell M. Lilly
Title Agent
Witnessed by N. Steeking
Company Southern Union Gas

* 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 - P _d ²	P _d ²
2444	0.163	12.6	2.2	462.4	464.5	681.5



OK

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