

Initial Deliverability
Test

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 Undesignated Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 5-27-60

Operator Humble Oil & Refining Co. Lease North Lindroth Gas Unit Well No. 1
Unit M Sec. 20 Twp. 26N Rge. 2W Pay Zone: From 3778 To 3842
Casing: OD 7 5/8 WT. 26.40 Set At 4007 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 3760
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 0.679 Estimated _____
Date of Flow Test: From 2-7-60 To 2-15-60 * Date S.I.P. Measured 1-29-58
Meter Run Size 4" Orifice Size _____ Type Chart S.R. 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 (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 1028 psig + 12 = 1040 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1028 psig + 12 = 1040 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1040 psia (l)
Flowing Temp. (Meter Run) 55. F + 460 _____ = 515 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 520 psia (n)

FLOW RATE CALCULATION

Q = 428 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{428}$ MCF/day
(Integrate-I)

DELIVERABILITY CALCULATION

D = Q 428 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{1.112}{1.0944} = \underline{468}$ MCF/day.

SUMMARY

P_c = 1040 psia
Q = 428 Mcf/day
P_w = 994 psia
P_d = 520 psia
D = 468 Mcf/day

Company Humble Oil & Refining Co.
By J. A. Sugar
Title Consulting Engineer
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
2553	0.169	16.23	2.74	349	352	994

