

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 Tapacito Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 6/10/60
Operator Mobil Oil Company Lease Jicarilla B Well No. 5 UT - PC
Unit A Sec. 20 Twp. 26N Rge. 3W Pay Zone: From 3945' To 3997'
Casing: OD 7-5/8" WT. 24# Set At 4200' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 3996
Produced Through: Casing _____ Tubing x Gas Gravity: Measured .577 Estimated "
Date of Flow Test: From 5/15/60 To 5/22/60 * Date S.I.P. Measured 5/29/60
Meter Run Size 4.026" Orifice Size 0.500" Type Chart Sq. Rt. Type Taps Flg.

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) 455 psig + 12 = 467 psia (b)
Flowing meter pressure (Dwt) 454 psig + 12 = 466 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (6.80)² x spring constant 10 = 462 psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = 1 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. 10 = 456 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 461 psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 651 psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 57 °F + 460 _____ = 517 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 332 psia (n)

Q = 153 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{21.59}{21.49} = 1.005 \right) = \underline{154} \text{ MCF/day}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 154 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{329.4}{226.7}^{.85} = 1.374 = \underline{212} \text{ MCF/day}$

SUMMARY

P_c = 663 psia
Q = 154 Mcf/day
P_w = 461 psia
P_d = 332 psia
D = 212 Mcf/day

Company Mobil Oil Company

By Max Beazley By M.C. McCall

Title Pred. Engr.

Witnessed by _____

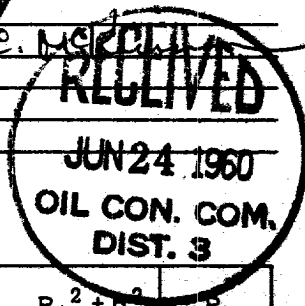
Company _____

* 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
2699	.178	2.096	.373	212.521	212.894	461



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