

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)

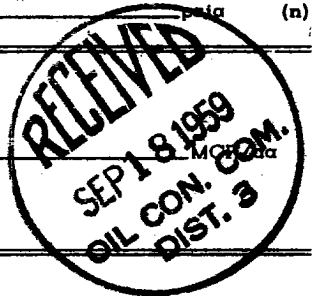
Pool Blanco-Pictured Cliffs Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed September 17, 1959
~~Pan American Petroleum Corp.~~ Operator Sandoval Gas Unit Well No. 1
Unit 35 Sec. 35 Twp. 30N Rge. 9W Pay Zone: From 2432 To 2492
Casing: OD 4-1/2 WT. 9.5 Set At 2537 Tubing: OD 1.66 WT. 2.3 T. Perf. 2436
Produced Through: Casing 8-22-59 Tubing 8-30-59 Gas Gravity: Measured 0.658 Estimated 0.658
Date of Flow Test: From 8-22-59 To 8-30-59 * Date S.I.P. Measured 8-23-59
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 7.05 psig + 12 = 249 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 249 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 249 psia (h)
P_t = (h) + (f) _____ = 1043 psia (i)
Wellhead casing shut-in pressure (Dwt) 1031 psig + 12 = 1043 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 1043 psia (k)
P_c = (j) or (k) whichever well flowed through 76 _____ = 538 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = 522 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)$

(Integrated)



DELIVERABILITY CALCULATION

D = Q 2730 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{825,365}{2,025,648} \times 0.8230 = 2247$ MCF/da.

SUMMARY
P_c = 1043 psia
Q = 2730 Mcf/day
P_w = 522 psia
P_d = 2247 psia
D = _____ Mcf/day

PAN AMERICAN PETROLEUM CORPORATION
Company _____
By E. H. Lauer, Jr.
Title APCA 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
Friction loss negligible						

* Furnished by pipeline company

INITIAL DELIVERABILITY TEST

