

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 Basin Dakota Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1-5-65
Operator PAN AMERICAN PETROLEUM CORP. Lease O. H. Randal Well No. 1
Unit L Sec. 9 Twp. 26N Rge. 11W Pay Zone: From 6198 To 6204
Casing: OD 7" WT. 20 & 23 Set At 6665 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6198
Produced Through: Casing Tubing X Gas Gravity: Measured .600 Estimated
Date of Flow Test: From 11-30-64 To 12-8-64 * Date S.I.P. Measured 8-29-63
Meter Run Size 4" Orifice Size 1.500 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. 10 _____ = 497 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 497 psia (h)
P_t = (h) + (f) _____ = 497 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1372 psig + 12 = 1384 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1384 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 692 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 2770 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1,436,592}{1,489,365} \right]^n .9734 = \text{_____} = \text{_____ MCF/da.}$

SUMMARY

P_c = 1384 psia
Q = 2770 Mcf/day
P_w = 633 psia
P_d = 692 psia
D = 2696 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Hubers
Title District Engineer
Witnessed by By: ORIGINAL SIGNATURE
Company F. W. Foell

- * 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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
4215	.264	678.266	179.062	247.009	426.071	633

Well disconnected from Sunray BK Oil Company's Central Distri Unit on December 17, 1963,
and shut in until connected to El Paso Natural Gas Company's system on November 7, 1964.
First delivery made November 11, 1964.

