

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 Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed January 10, 1962
Operator Pan American Petroleum Corp. Lease Jicarilla Contract 146 Well No. 10
Unit N Sec. 9 Twp. 25N Rge. 5W Pay Zone: From 7130 To 7164
Casing: OD 4-1/2 WT 11.6 & 9.5 Set At 7450 Tubing: OD 2-3/8 WT 4.7 T. Perf. 7130
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .723 Estimated _____
Date of Flow Test: From 9-6-61 To 9-14-61 * Date S.I.P. Measured 2-7-61 (initial)
Meter Run Size 4" Orifice Size 2.000 Type Chart 39. M. 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 (7.95) 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) _____ 2006 psig + 12 = 2018 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 2006 psig + 12 = 2018 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2018 psia (l)
Flowing Temp. (Meter Run) _____ 61 °F + 460 _____ = 561 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 1009 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(Integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \text{_____} = \text{_____} \right) = \text{_____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ } \underline{2607} \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{3,054,243}{3,579,109} \right]^n \text{ } \underline{.8579} = \underline{2315} \text{ MCF/da.}$$

SUMMARY

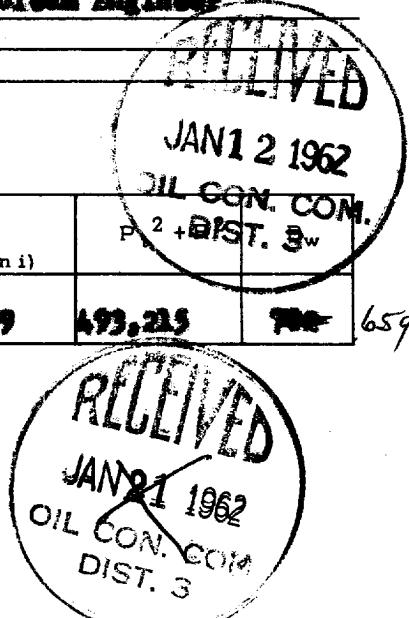
P_c = 2018 psia
Q = 2607 Mcf/day
P_w = 702 659 psia
P_d = 1009 psia
D = 2315 Mcf/day

Company Pan American Petroleum Corporation
By R. M. Bauer, Jr. RMB
Title Senior Petroleum Engineer
Witnessed by _____
Company _____

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸) R ²	P _t ² (Column i)	P _t ² + DIST. 3 _w	
<u>5140</u>	<u>.312</u>	<u>789.121</u>	<u>246.206</u>	<u>247,009</u>	<u>493,215</u>	<u>702</u> <u>659</u>



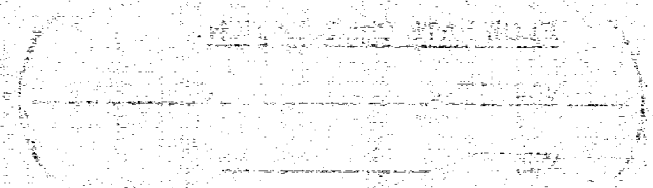
UNITED STATES DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION

MEMORANDUM FOR THE DIRECTOR, FBI
SUBJECT: [Illegible]

TO: [Illegible]
FROM: [Illegible]
DATE: [Illegible]
RE: [Illegible]

ADMINISTRATIVE

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CONFIDENTIAL

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