

1 El Paso
1 Texas Oil & Gas
1 File

Form C-122-A
Revised April 20, 1955

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 Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 4/12/65
Operator Texas Oil & Gas Corp. Lease Pan Am Federal Well No. 1
Unit N Sec. 24 Twp. 30N Rge. 14W Pay Zone: From 5968 To 6182
Casing: OD 4 1/2" WT. 10.5# Set At 6239 Tubing: OD 2 3/8" WT. 4.7# T. Perf. 6177
Produced Through: Casing X Tubing X Gas Gravity: Measured .682 Estimated
Date of Flow Test: From 3-15-65 To 3-23-65 * Date S.I.P. Measured 9-21-64
Meter Run Size 4" Orifice Size 1.250 Type Chart S.R. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 638 psig + 12 = 650 psia (a)
Flowing tubing pressure (Dwt) 456 psig + 12 = 468 psia (b)
Flowing meter pressure (Dwt) 455 psig + 12 = 467 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 6.8 psig + 12 = 462 psia (d)
Square root chart reading (6.8)² x spring constant 10 = 462 psia (d)
Meter error (c) - (d) or (d) - (c) ± = +5 psi (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 6.8 psig + 12 = 462 psia (g)
Square root chart average reading (6.8)² x sp. const. 10 = 462 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) = 467 psia (h)
P_t = (h) + (f) = 468 psia (i)
Wellhead casing shut-in pressure (Dwt) 2004 psig + 12 = 2016 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2000 psig + 12 = 2012 psia (k)
P_c = (j) or (k) whichever well flowed through = 2016 psia (l)
Flowing Temp. (Meter Run) °F + 460 = 1008 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 1008 psia (n)

FLOW RATE CALCULATION

Q = 423 X $\left(\frac{\sqrt{(c)} = \sqrt{1.0108} = 1.0054}{\sqrt{(d)}} \right)^* = \underline{425} MCF/da
(Integrated)$

DELIVERABILITY CALCULATION

D = Q 425 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.75} = \underline{357} MCF/da.
 $\frac{3,048,192}{3,841,017} \cdot .75$ $\frac{.8408}{(.7936) \cdot .75}$$

SUMMARY

P_c = 2016 psia
Q = 425 Mcf/day
P_w = 472 psia
P_d = 1008 psia
D = 357 Mcf/day

Company Texas Oil and Gas Corp.
By Original signed by J. A. Smith
Title Consulting Engineer
Witnessed by
Company

APR 13 1965
OIL CON. COM.
DIST. 3

- * 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
4213	.264	15.966	4.215	219.024	223.239	472