

REWORKED WELL

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 Fulcher-Kutz Formation Pictured Cliffs County San Juan
Purchasing Pipeline Southern Union Gas Co. Date Test Filed January 8, 1956
~~TEXAS NATIONAL PETROLEUM CO.~~
~~Johnston Oil Company~~ Lease Lodewick Well No. # 2
Operator A Sec. 19 Twp. 27 N Rge. 9 W Pay Zone: From 2318 To 2390
Casing: OD 5 1/2 WT. 14# Set At 2312 Tubing: OD 1" WT. 1.7 T. Perf. 2358
Produced Through: Casing X Tubing _____ Gas Gravity: Measured _____ Estimated .663
Date of Flow Test: From 11-23-55 To 11-30-55 Date S.I.P. Measured 10-16-55
Meter Run Size 4" Orifice Size 7/8 Type Chart normal 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 228 psig + 12 = 240 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 240 psia (h)
P_t = (h) + (f) _____ = 240 psia (i)
Wellhead casing shut-in pressure (Dwt) 488 psig + 12 = 500 psia (j)
Wellhead tubing shut-in pressure (Dwt) 488 psig + 12 = 500 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 500 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 250 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q 293 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{187,500}{192,400} \times .9745^{.85} = .9783 = \frac{287}{286.64}$ MCF/da.

SUMMARY

P_c = 500 psia
Q = 293 Mcf/day
P_w = 240 psia
P_d = 250 psia
D = 286.64 287 Mcf/day

TEXAS NATIONAL PETROLEUM CO.,
Johnston Oil Co.

Company _____
By M. D. Richardson
Agent
Title Bruno Giovanni
Witnessed by _____
Company Southern Union Gas Co.

- * 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w

* Note: Low casing flow; P_w equal P_t

OK



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