

Initial Deliverability
Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVILLE, & ALL OTHERS
EXCEPT BARKER DOME STORAGE AREA)

Pool South Blanco Formation Pictured 440

Purchasing Pipeline El Paso Natural Gas Co. Date Test Fil 12-27-59

Operator Shelly Oil Company Lease Charley-Pah Well No. 2

Unit 2 Sec. 12 Twp. 37N Rge. 9W Pay Zone: From 2004 To 2005

Casing: OD 7" WT. 17.4 Set At 2008 Tubing: OD 1" WT. 1.32 I. P. 20"

Produced Through: Casing X Tubing Gas Gravity: Measured .613 Estimated

Date of Flow Test: From 1-8-59 To 1-16-59 Date S.I.P. Measured 12-27-59

Meter Run Size 1" Orifice Size 2.000" Type Chart Eq. 11 Type Tape Flow

OBSERVED DATA

Flowing casing pressure (Dwt) psig + 12 = psia

Flowing tubing pressure (Dwt) psig + 12 = psia

Flowing meter pressure (Dwt) psig + 12 = psia

Flowing meter pressure (meter reading when Dwt. measurement taken):

Manometer chart reading psig + 12 = psia

Spans root chart reading () ² x spring constant = psia

Mean error (c) - (d) or (d) - (c) ± = psi

Friction loss, Flowing column to meter:

(a) - (c) Flow through tubing; (a) - (c) Flow through casing = psi

Seven day average static meter pressure (from meter chart):

Manometer chart average reading psig + 12 = psia

Spans root chart average reading (5.35) ² x sp. const. 5.00 = 256 psia

Corrected seven day avge. meter press. (p_f) (g) + (e) = psia

P_{sc} = p_f + (f) = psia

Flowing casing shut-in pressure (Dwt) 700 psig + 12 = psia

Flowing tubing shut-in pressure (Dwt) psig + 12 = psia

P_{sc} = Q₁ or (h) whichever well flowed through = psia

Flowing Temp. (Meter Run) 54 °F + 460 = °Abs

P_{sc} = 1/2 P_{sc} = 1/2 (1) = psia

FLOW RATE CALCULATION

$$Q = \frac{V(c)}{V(d)} \times \left(\frac{V(c)}{V(d)} \right)^{1/2} = \text{MCF/d}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{p_c^2 - p_d^2}{p_c^2 - p_w^2} \right]^{1/n} = \text{MCF/day}$$

SUMMARY

P_{sc} = psia
Q = Mcf/day
P_w = psia
P_d = psia
D = Mcf/day

Company Shelly Oil Company
By P. E. Cooper For
Title Dist. Eng.
Witnessed by
Company

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

MARKS OR FRICTION CALCULATION

GL	(1-e ^{-s})	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	R ²	P _t ² (Column 5)	P _t ² + R ²	P _w

Negligible

OK



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