

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 Company Date Test Filed August 22, 1961
Operator Shelly Oil Company Lease P. J. Davis Well No. 2
Unit L Sec. 26 Twp. 26N Rge. 11W Pay Zone: From 6057' To 6142'
Casing: OD 5 1/2" WT. 14.415 lb Set At 6301' Tubing: OD 2 1/16" WT. 3.44 T. Perf. 6017'
Produced Through: Casing Tubing I Gas Gravity: Measured .718 Estimated
Date of Flow Test: From 7-29-61 To 8-6-61 * Date S.I.P. Measured 8-22-61
Meter Run Size 4.025" I.D. Orifice Size 0.425 Type Chart S.R. Type Taps Flanged

OBSERVED DATA

Flowing casing pressure (Dwt) psig + 12 = psia (a)
Flowing tubing pressure (Dwt) 487 psig + 12 = 499 psia (b)
Flowing meter pressure (Dwt) 479 psig + 12 = 491 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading psig + 12 = psia (d)
Square root chart reading (7.04)² x spring constant 10.00 = 496 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 = 8 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. 10.00 = 497 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 492 psia (h)
P_t = (h) + (f) = 500 psia (i)
Wellhead casing shut-in pressure (Dwt) psig + 12 = psia (j)
Wellhead tubing shut-in pressure (Dwt) 1323 psig + 12 = 1335 psia (k)
P_c = (j) or (k) whichever well flowed through = 1335 psia (l)
Flowing Temp. (Meter Run) 92 °F + 460 = 552 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 668 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{169}{(\text{Integrated})} \times \left(\frac{\sqrt{(c)} = 22.15152}{\sqrt{(d)} = 22.27106} = .9949 \right) = 168 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{168}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1,336,001}{1,530,720} \right]^n .8728^{.75} .9030} = 152 \text{ MCF/da.}$$

SUMMARY

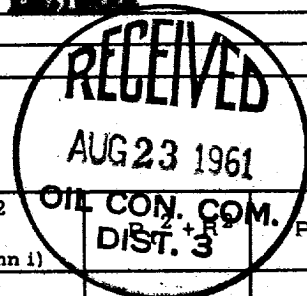
P_c = 1335 psia
Q = 168 Mcf/day
P_w = 501 psia
P_d = 668 psia
D = 152 Mcf/day

Company Shelly Oil Company
By John B. Chambers/et
Title PRODUCTION ENGINEER
Witnessed by
Company

- * 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 _w
1330	0.270	5.545	2.497	250,000	500



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