

Initial Deliverability
TestNEW 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 SJ
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 3/13/61Operator Southwest Production Co. Lease Edgar Federal Well No. 2
Unit G Sec. 29 / Twp. 27N Rge. 12W Pay Zone: From 6229 To 6387
Casing: OD 5 1/2 WT. 15.5 Set At 6394 Tubing: OD 2 3/8 WT. 4.70 T. Perf. 6361
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .712 Estimated _____
Date of Flow Test: From 1/30/61 To 2/7/61 * Date S.I.P. Measured 2/14/61
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) 477 psig + 12 = 489 psia (b)
Flowing meter pressure (Dwt) 471 psig + 12 = 483 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (6.95)² x spring constant 1.000 = 483 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 _____ = 6 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.95)² x sp. const. 1.000 = 483 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 489 psia (h)
P_t = (h) + (f) _____ = 489 psia (i)
Wellhead casing shut-in pressure (Dwt) 1801 psig + 12 = 1813 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1803 psig + 12 = 1815 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1815 psia (l)
Flowing Temp. (Meter Run) 94 °F + 460 _____ = 554 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 908 psia (n)

$$Q = \frac{351}{(\text{integrated})} \times \left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{1.0}{1.0} = 100} \right) = 351 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q = \frac{351}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75}} = \frac{351}{\left[\frac{2,469,761}{3,024,612} \right]^{.75}} = \frac{351}{(1.8092)^{.75}} = 302 \text{ MCF/da.}$$

SUMMARY

P_c = 1815 psia
Q = 351 Mcf/day
P_w = 519 492 psia
P_d = 908 psia
D = 302 Mcf/dayCompany Southwest Production Company
By George L. Hoffman, Jr.
Title Production Foreman
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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
4523	.280	10.890	3,060	239,121	240,613	559
					242,170	492



OK

... ..
... ..
... ..

... ..
... ..

... ..
... ..
... ..
... ..

... ..
... ..

... ..
... ..

... ..
... ..
... ..
... ..
... ..
... ..
... ..

... ..
... ..

... ..
... ..

... ..
... ..
... ..

... ..
... ..
... ..

