

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 BALLARD Formation PICTURED CLIFFS County SAN JUAN
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 9-7-56
Operator FRANK A. SCHULTZ, JR. Lease PAYNE Well No. 3-14X
Unit I Sec. 14 Twp. 25N Rge. 8W Pay Zone: From 2580 To 2605
Casing: OD 5-1/2" WT. 15.5# Set At 2580 Tubing: OD 1-1/4" WT. 2.4# T. Perf. 2596
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.685 Estimated _____
Date of Flow Test: From 7-23-56 To 7-31-56 * Date S.I.P. Measured 4-6-56
Meter Run Size 4" Orifice Size _____ Type Chart Sq. Rt. 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 _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.15) ² x sp. const. 5 _____ = 256 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 256 psia (h)
P_t = (h) + (f) _____ = 256 psia (i)
Wellhead casing shut-in pressure (Dwt) 646 _____ psig + 12 = 658 psia (j)
Wellhead tubing shut-in pressure (Dwt) 646 _____ psig + 12 = 658 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 658 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 329 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{V(c)}{V(d)} \right) = \text{_____} \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{657}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.900}} = \frac{324,400}{367,000}^{0.900} = 591 \text{ MCF/day}$$

SUMMARY

P_c = 658 psia
Q = 657 Mcf/day
P_w = 256 psia
P_d = 329 psia
D = 591 Mcf/day

Company FRANK A. SCHULTZ, JR.
By David J. Stoker
Title 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 _t ² + R ²	P _w
			Friction negligible			



1943-1944

1945-1946

1947-1948

1949-1950

1951-1952

1953-1954

1955-1956

1957-1958

1959-1960

1961-1962

1963-1964

1965-1966

1967-1968

1969-1970

1971-1972

1973-1974

1975-1976

1977-1978

1979-1980

1981-1982

1983-1984

1985-1986