

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 East Blanco pictured Cliff Formation Pictured Cliff County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease San Juan 30-4 Unit Well No. 7

Unit P Sec. 16 Twp. 30 Rge. 7 Pay Zone: From 4172 To 4267

Casing: OD 5 1/2 WT. 15.5 Set At 4267 Tubing: OD 1 1/2 WT. 2.2 T. Perf. 4226

Produced Through: Casing _____ Tubing 1 Gas Gravity: Measured _____ Estimated .670

Date of Flow Test: From 11/13 To 12/31 * Date S.I.P. Measured 12/2/54

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: _____ = _____ psi (f)
(b) - (c) Flow through tubing; (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.65)² x sp. const. 10 _____ = 565 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 565 psia (h)
P_t = (h) + (f) _____ = 565 psia (i)
Wellhead casing shut-in pressure (Dwt) 122 psig + 12 = 121.0 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1135 psig + 12 = 111.7 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 111.7 psia (l)
Flowing Temp. (Meter Run) 44 °F - 460 _____ = 504 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 574 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{130}{1} = 130 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{1/n} = \frac{130 \times \left[\frac{986,133}{971,470} \right]^{1/1.0128}}{1.0128} = 132 \text{ MCF/day}$$

SUMMARY

P_c = 111.7 psia
Q = 130 Mcf/day
P_w = 567 psia
P_d = 574 psia
D = 132 Mcf/day

Company El Paso Natural Gas Company
By Donald E. Grier
Title _____
Witnessed by Lewis D. Galloway
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
<u>2831</u>	<u>.186</u>	<u>10.246</u>	<u>1.906</u>	<u>342,225</u>	<u>344,131</u>	<u>567</u>

B. & R. SERVICE COMPANY

TEMPERATURE SURVEY

COMPANY EL PASO NATURAL GAS COMPANY

WELL SAN JUAN 30-4 #7 FIELD

COUNTY RIO ARriba STATE NEW MEXICO

SEC. 18 TWP. 20N RGE. 4W

APPROX. TOP CEMENT 2805

Survey Begins at 2500 Ft. Ends at 4120 Ft.

Approx. Fill-Up OVER 100% Max. Temp. 103°@4120

Log Measured From ROTARY TABLE Run No. 1

Casing Size	Casing Depth	Diam of Hole	Depth
5½" from 4167	to	8½" from	to
from	to	from	to

Date of Cementing NOVEMBER 15, 1954 Time 5:00 P.M.

Date of Survey NOVEMBER 16, 1954 Time 2:30 A.M.

Amount of Cement 150 SACKS Type REGULAR

Amount of Admix 150 SKS. POZMIX, #4/4% GEL Type

Recorded by BEAN Witnessed by CLARK

REMARKS OR OTHER DATA

TEMPERATURE IN DEGREES FAHRENHEIT

