

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 Blanco Formation Mesa Verde County San Juan

Purchasing Pipeline _____ Date Test Filed _____

Operator El Paso Natural Gas Lease Howell Well No. No. 4-C

Unit M Sec. 18 Twp. 30N Rge. 8W Pay Zone: From 4788 To 5340

Casing: OD 7-5/8 WT. 26.4 Set At 3348 Tubing: OD 2 WT. 4.7 T. Perf. 4788

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .666 Estimated _____

Date of Flow Test: From 2/21/58 To 3/1/58 * Date S.I.P. Measured 12-31-57 (14 days)

Meter Run Size _____ Orifice Size 2.250 Type Chart _____ Type Taps _____

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. 1000 _____ = 511 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 511 psia (h)

P_t = (h) + (f) _____ = 511 psia (i)

Wellhead casing shut-in pressure (Dwt) 1023 psig + 12 = 1035 psia (j)

Wellhead tubing shut-in pressure (Dwt) 1005 psig + 12 = 1017 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 1017 psia (l)

Flowing Temp. (Meter Run) 71 °F + 460 _____ = 531 °Abs (m)

P_d = ½ P_c = ½ (l) _____ = 509 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\text{(integrated)}}{\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)} = \frac{\text{_____}}{\text{_____}} = \text{_____} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \text{1728} \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{1728}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = \frac{1728}{\left[\frac{1017^2 - 509^2}{1017^2 - 562^2} \right]^{.75}} = \frac{1728}{(1.0585)} = 1829 \text{ MCF/day}$$

SUMMARY

P_c = 1017 psia
Q = 1728 Mcf/day
P_w = 562 psia
P_d = 509 psia
D = 1829 Mcf/day

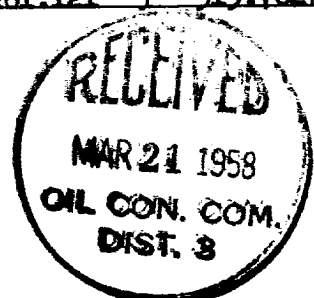
Company El Paso Natural Gas
By _____ Original Signed
Title _____
Witnessed by Lewis D. Galloway
Company _____

* 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>3189</u>	<u>.207</u>	<u>263.965</u>	<u>54.641</u>	<u>261.121</u>	<u>315.762</u>	<u>562</u>

D at 500 = 1726



AT&T CENT 280

[illegible]

POCTAJLOJAC ETAR WOJNA

06/30M _____

DETERMINATION OF CULTIVATION

DATE _____

(02.1)

3-23-77
1981

Witnessed by _____
Lewis C. Galloway

1. $\frac{1}{2} \log \frac{1}{2}$
 2. $\frac{1}{2} \log \frac{1}{2}$
 3. $\frac{1}{2} \log \frac{1}{2}$
 4. $\frac{1}{2} \log \frac{1}{2}$

7-11-11
6-11-11
5-11-11
4-11-11
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