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_____**South Blanco**_____Formation___**Pictured Cliffs**___County___**Rio Arriba**___

Purchasing Pipeline_____**El Paso Natural Gas**_____Date Test Filed_____

Operator___**El Paso Natural Gas**_____Lease___**Jicarilla**_____Well No.___**3-B**___

Unit___**O**___Sec.___**28**___Twp.___**25**___Rge.___**4**___Pay Zone: From___**3132**___To___**3162**___

Casing: OD___**5-1/2**___WT.___**15.5**___Set At **3225**___Tubing: OD___**2**___WT.___**4.7**___T. Perf.___**3124**___

Produced Through: Casing___**X**___Tubing_____Gas Gravity: Measured___**.688**___Estimated_____

Date of Flow Test: From___**12-31-57**___To___**1-9-58**___*Date S.I.P. Measured___**6-14-57 (13 days)**___

Meter Run Size_____Orifice Size_____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 (**7.45**)^2 x sp. const. **5**   = **278** psia (g)

    Corrected seven day avge. meter press. (p_f) (g) + (e)   = **278** psia (h)

P_t = (h) + (f)   = **278** psia (i)

Wellhead casing shut-in pressure (Dwt)_____**1003**_____psig + 12 = **1015** psia (j)

Wellhead tubing shut-in pressure (Dwt)_____**1003**_____psig + 12 = **1015** psia (k)

P_c = (j) or (k) whichever well flowed through   = **1015** psia (l)

Flowing Temp. (Meter Run)   **61**°F + 460   = **521** °Abs (m)

$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l)   = **508** psia (n)

FLOW RATE CALCULATION

$$Q = \underset{(integrated)}{\rule{2cm}{0.4pt}} \times \left(\frac{\sqrt{(c)} = \rule{1cm}{0.4pt} = \rule{1cm}{0.4pt}}{\sqrt{(d)} \quad \rule{2cm}{0.4pt}} \right)^* = \textbf{2172} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ \textbf{2172}\ \left[\begin{array}{l} (P_c^2 - P_d^2) = \textbf{772,161} \\ (P_c^2 - P_w^2) = \textbf{950,971} \end{array} \right]^n\ \begin{array}{l}\textbf{.8119}\\ \textbf{.8377}\end{array} = \textbf{1819}\ \text{MCF/da.}$$

SUMMARY

P_c = **1015** psia

Q = **2172** Mcf/day

P_w = **282** psia

P_d = **508** psia

D = **1819** Mcf/day

Company___**El Paso Natural Gas**___

By_____**Original Signed**_____

Title_____**Lewis D. Galloway**_____

Witnessed by_____

Company_____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)2$	$(F_cQ)^2 \frac{(1-e^{-S})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
2155	.145	13.587	1970	77,284	79,254	282

D at 250 = 2189