

Initial Deliverability Test

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 So Blanco Formation Pictured Cliffs County RA  
Purchasing Pipeline El Paso Natural Gas Co Date Test Filed 3/21/57

Operator Shelly Oil Co Lease Jicarilla "C" Well No. 4  
Unit A Sec. 28 Twp. 25N Rge. 5W Pay Zone: From \_\_\_\_\_ To \_\_\_\_\_  
Casing: OD \_\_\_\_\_ WT. \_\_\_\_\_ Set At \_\_\_\_\_ Tubing: OD 2" WT. \_\_\_\_\_ T. Perf. 2700  
Produced Through: Casing \_\_\_\_\_ Tubing I Gas Gravity: Measured .665 Estimated \_\_\_\_\_  
Date of Flow Test: From 3/1/57 To 3/4/57 \* Date S.I.P. Measured 6/15/56  
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 ( \_\_\_\_\_ ) <sup>2</sup> 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 8.00 psig + 12 = 380 psia (g)  
Square root chart average reading ( 5.00 ) <sup>2</sup> x sp. const. \_\_\_\_\_ = \_\_\_\_\_ psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = \_\_\_\_\_ psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 810 psia (i)  
Wellhead casing shut-in pressure (Dwt) \_\_\_\_\_ psig + 12 = 800 psia (j)  
Wellhead tubing shut-in pressure (Dwt) \_\_\_\_\_ psig + 12 = 810 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through 53 \_\_\_\_\_ = 810 psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ °F + 460 \_\_\_\_\_ = 810 °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) \_\_\_\_\_ = 810 psia (n)

Q = 792 X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{\sqrt{(d)}}{\sqrt{(d)}}} \right) = \text{_____ MCF/day}$   
(integrated)

DELIVERABILITY CALCULATION 723  
D = Q 792  $\left[ \frac{(P_c^2 - P_d^2) = \frac{494,508}{553,060}}{(P_c^2 - P_w^2) = \frac{553,060}{553,060}} \right]^n \cdot \frac{.9238 \cdot .9125}{1} = \text{792} \leftarrow \text{Use}$  MCF/day.

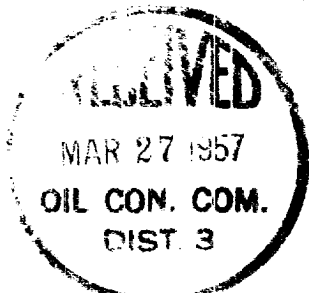
SUMMARY  
P<sub>c</sub> = 812 psia  
Q = 792 Mcf/day  
P<sub>w</sub> = 330 psia  
P<sub>d</sub> = 810 psia  
D = 792 Mcf/day

Company Geoelectric, Inc  
By H.J. McConathy H. J. McConathy  
Title Agent  
Witnessed by \_\_\_\_\_  
Company \_\_\_\_\_

\* This is date of completion test.  
\* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e <sup>-S</sup> )	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-S</sup> ) R <sup>2</sup>	P <sub>t</sub> <sup>2</sup> (Column i)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub> $\frac{P_w}{3.30}$
1796	.122	55.148	6.765	102.400	109.164	335.8



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