

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 Undesignated - PC Formation Pictured Cliffs County RA  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1/8/59  
Operator Skelly Oil Company Lease J. R. Anderson Well No. 2  
Unit B Sec. 26 Twp. 25N Rge. 3W Pay Zone: From 3565 To 3612  
Casing: OD 5 1/2" WT. 14# Set At 3681 Tubing: OD 2" WT. 4.7 T. Perf. 3619  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .689 Estimated \_\_\_\_\_  
Date of Flow Test: From 12-1-59 To 12-9-59 \* Date S.I.P. Measured 6-9-59  
Meter Run Size 4" Orifice Size 1.000 Type Chart SR 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 \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (g)  
Square root chart average reading (7.25) <sup>2</sup> x sp. const. 5.00 = 263 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = \_\_\_\_\_ psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 263 psia (i)  
Wellhead casing shut-in pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (j)  
Wellhead tubing shut-in pressure (Dwt) 900 psig + 12 = 912 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 912 psia (l)  
Flowing Temp. (Meter Run) 47 °F + 460 \_\_\_\_\_ = 507 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 456 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{_____ MCF/da}$

(integrated)

DELIVERABILITY CALCULATION

D = Q 181  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{623808}{762575} \right]^n \cdot 0.8180^{.85} = 0.8430 \cdot 153 \text{ MCF/da.}$

SUMMARY

P<sub>c</sub> = 912 psia  
Q = 181 Mcf/day  
P<sub>w</sub> = 263 psia  
P<sub>d</sub> = 456 psia  
D = 153 Mcf/day

Company Skelly Oil Company  
By P. E. Casper  
Title District Superintendent  
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>
			Negligible			



