

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 Formation Pictured Cliffs County RA  
Purchasing Pipeline Pacific Northwest Pipeline Date Test Filed May 24, 1957  
Operator Skelly Oil Co Lease L L McConnell Well No. 6  
Unit J Sec. 30 Twp. 25N Rge. 3W Pay Zone: From \_\_\_\_\_ To \_\_\_\_\_  
Casing: OD 5 1/2 WT. \_\_\_\_\_ Set At 3774 Tubing: OD \_\_\_\_\_ WT. \_\_\_\_\_ T. Perf. \_\_\_\_\_  
Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured \_\_\_\_\_ Estimated \_\_\_\_\_  
Date of Flow Test: From 4/24/57 To 4/31/57 \* Date S.I.P. Measured \_\_\_\_\_  
Meter Run Size 4" Orifice Size \_\_\_\_\_ Type Chart Normal 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 520 psig + 12 = 532 psia (g)  
Square root chart average reading (\_\_\_\_\_) <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) \_\_\_\_\_ = 532 psia (i)  
Wellhead casing shut-in pressure (Dwt) 925 psig + 12 = 937 psia (j)  
Wellhead tubing shut-in pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 937 psia (l)  
Flowing Temp. (Meter Run) 43 °F + 460 \_\_\_\_\_ = 493 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 469 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 150  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{1.0927}{\text{_____}} = \text{_____ MCF/da.}$   
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{658,008}{594,945}$

SUMMARY

P<sub>c</sub> = 937 psia  
Q = 150 Mcf/day  
P<sub>w</sub> = 532 psia  
P<sub>d</sub> = 469 psia  
D = 164 Mcf/day

Company Geolestrie, Inc  
By B A Keres B. A. Keres  
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> R <sup>2</sup>	(1-e <sup>-S</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>

OK



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