

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 Otero-Dakota Formation Dakota County Rio Arriba  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 4/21/58  
Operator SKELLY OIL COMPANY Lease Jicarilla "C" Well No. 6  
Unit J Sec. 27 Twp. 25N Rge. 5W Pay Zone: From 7022 To 7048  
Casing: OD 5 1/2" WT. 17# Set At 7348 Tubing: OD 2" WT. 4.70 T. Perf. 6993  
Produced Through: Casing          Tubing          Gas Gravity: Measured .698 Estimated           
Date of Flow Test: From 1-16-58 To 1-23-58 \* Date S.I.P. Measured 2-18-57  
Meter Run Size 4" Orifice Size 1.250 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          psig + 12 =          psia (g)  
Square root chart average reading (          )<sup>2</sup> x sp. const. 10.00 = 314 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e)          =          psia (h)  
P<sub>t</sub> = (h) + (f)          = 314 psia (i)  
Wellhead casing shut-in pressure (Dwt)          psig + 12 =          psia (j)  
Wellhead tubing shut-in pressure (Dwt) 2400 psig + 12 = 2412 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through          = 2412 psia (l)  
Flowing Temp. (Meter Run) 81 °F + 460          = 541 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l)          = 1206 psia (n)

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

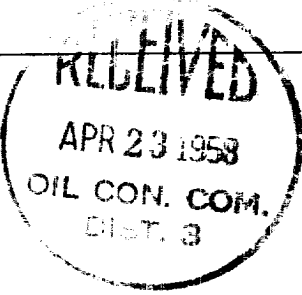
DELIVERABILITY CALCULATION  
D = Q 912  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.75} = \frac{4,363,308}{5,719,148}^{.75} = .3163 = 744$  MCF/da.

SUMMARY  
P<sub>c</sub> = 2412 psia Company SKELLY OIL COMPANY  
Q = 912 Mcf/day By Les E. King L.E.K.  
P<sub>w</sub> = 314 psia Title Engineer  
P<sub>d</sub> = 1206 psia Witnessed by           
D = 744 Mcf/day 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> )<br>R <sup>2</sup> | P <sub>t</sub> <sup>2</sup><br>(Column i) | P <sub>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|----|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
|    |                      |                                 |                                                                        |                                           |                                              |                |



100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100