

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 \_\_\_\_\_ Basin Dakota Formation Dakota County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1-18-64  
Operator Union Oil of California Lease Moncrief Fed. Well No. 1  
Unit H Sec. 22 Twp. 29 Rge. 12 Pay Zone: From 6140 To 6235  
Casing: OD 4 1/2 WT. \_\_\_\_\_ Set At 6310 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 6140  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .646 Estimated \_\_\_\_\_  
Date of Flow Test: From 12-13-64 To 12-21-64 \* Date S.I.P. Measured 12-28-64  
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 ( \_\_\_\_\_ )<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. \_\_\_\_\_ = 526 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 526 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 526 psia (i)  
Wellhead casing shut-in pressure (Dwt) \_\_\_\_\_ 1885 psig + 12 = 1897 psia (j)  
Wellhead tubing shut-in pressure (Dwt) \_\_\_\_\_ 1885 psig + 12 = 1897 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1897 psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ °F + 460 \_\_\_\_\_ = \_\_\_\_\_ °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 949 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{3050} \text{ MCF/da}$   
(Integrated).

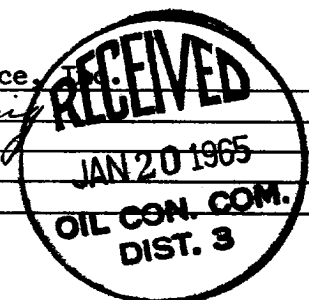
DELIVERABILITY CALCULATION

D = Q 3050  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{.8659}{.8976} = \underline{2738} \text{ MCF/da.}$

SUMMARY

P<sub>c</sub> = 1897 psia  
Q = 3050 Mcf/day  
P<sub>w</sub> = 695 psia  
P<sub>d</sub> = 949 psia  
D = 2738 Mcf/day

Company B & R Service  
By Basil W. King  
Title \_\_\_\_\_  
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>
3966	.251	822,313	206,401	276,676	483,077	695

NEWEXCO  
GAS TEST DATA SHEET - SAN JUAN BASIN

TO BE FILLED IN BY THE FIELD ENGINEER AND CHECKED BY THE LABORATORY  
DATE: \_\_\_\_\_

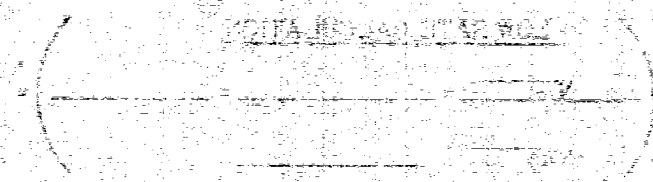
Location: \_\_\_\_\_  
Company: \_\_\_\_\_  
Well No.: \_\_\_\_\_  
Test No.: \_\_\_\_\_  
Date: \_\_\_\_\_

Pressure: \_\_\_\_\_  
Temperature: \_\_\_\_\_  
Flow Rate: \_\_\_\_\_  
Time: \_\_\_\_\_

OBSERVED DATA

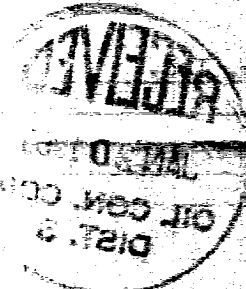
Pressure (psia) \_\_\_\_\_  
Temperature (°F) \_\_\_\_\_  
Flow Rate (scf/hr) \_\_\_\_\_  
Time (hr) \_\_\_\_\_  
Pressure (psia) \_\_\_\_\_  
Temperature (°F) \_\_\_\_\_  
Flow Rate (scf/hr) \_\_\_\_\_  
Time (hr) \_\_\_\_\_  
Pressure (psia) \_\_\_\_\_  
Temperature (°F) \_\_\_\_\_  
Flow Rate (scf/hr) \_\_\_\_\_  
Time (hr) \_\_\_\_\_

Pressure (psia) \_\_\_\_\_  
Temperature (°F) \_\_\_\_\_  
Flow Rate (scf/hr) \_\_\_\_\_  
Time (hr) \_\_\_\_\_  
Pressure (psia) \_\_\_\_\_  
Temperature (°F) \_\_\_\_\_  
Flow Rate (scf/hr) \_\_\_\_\_  
Time (hr) \_\_\_\_\_



LABORATORY TEST DATA

Date: \_\_\_\_\_  
Time: \_\_\_\_\_  
Pressure: \_\_\_\_\_  
Temperature: \_\_\_\_\_  
Flow Rate: \_\_\_\_\_  
Time: \_\_\_\_\_



TEST NO.	DATE	TIME	PRESSURE (PSIA)	TEMPERATURE (°F)	FLOW RATE (SCF/HR)
1	7/10/54	10:00	1000	100	100
2	7/10/54	10:15	1000	100	100
3	7/10/54	10:30	1000	100	100
4	7/10/54	10:45	1000	100	100
5	7/10/54	11:00	1000	100	100