

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 Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Southern Union Gas Company Date Test Filed March 19, 1957
Operator Humble Oil & Refining Co. Lease Jicarilla Apache Tribe "L" Well No. 1
Unit M Sec. 36 Twp. 25N Rge. 4W Pay Zone: From 3281 To 3330
Casing: OD 5-1/2" WT. 14#/ft. Set At 3399 Tubing: OD 2-3/8" WT. 4.7#/ft. T. Perf. 3267
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .680
Date of Flow Test: From 2-7-57 To 2-14-57 * Date S.I.P. Measured 6-15-56
Meter Run Size 4" Orifice Size 1-inch Type Chart Sq/ root 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 (_____) ² 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 (7.65) ² x sp. const. 10 _____ = 585 psia (g)
Corrected seven day avge. meter press. (pf) (g) + (e) _____ = _____ psia (h)
 $P_t = (h) + (f)$ _____ = 585 psia (i)
Wellhead casing shut-in pressure (Dwt) 1000 psig + 12 = 1012 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1000 psig + 12 = 1012 psia (k)
 $P_c = (j) \text{ or } (k) \text{ whichever well flowed through}$ _____ = 1012 psia (l)
Flowing Temp. (Meter Run) 61 °F + 460 _____ = 521 ° Abs (m)
 $P_d = \frac{1}{2} P_c = \frac{1}{2} (l)$ _____ = 506 psia (n)

Q = 444 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \text{_____ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION $n=0.85$ for Pictured Cliffs

$D = Q \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{(444)(1.1101)}{768.1 / 679.3} = 493 \text{ MCF/da.}$

SUMMARY

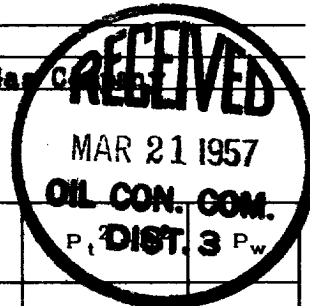
$P_c = 1012$ psia
 $Q = 444$ Mcf/day
 $P_w = 587.2$ psia
 $P_d = 506$ psia
 $D = 493$ Mcf/day

Company Humble Oil & Refining Company
By Russell M. Lilly Russell M. Lilly
Title Agent
Witnessed by H. Stooking
Company Southern Union Gas Company

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² DIST. 3 P _w
2222	0.149	17.4	2.6	342.2	344.8 587.2



OK

1. The first part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

2. The second part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

3. The third part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

4. The fourth part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

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10. The tenth part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

11. The eleventh part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

12. The twelfth part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

13. The thirteenth part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

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16. The sixteenth part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

17. The seventeenth part of the document is a list of the names of the persons who have been appointed to the various offices of the city.

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19. The nineteenth part of the document is a list of the names of the persons who have been appointed to the various offices of the city.