

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 3-3-61
Operator Adobe Oil Company Lease Parker Well No. 1
Unit X Sec. 33 Twp. 31N Rge. 13W Pay Zone: From 6097 To 6292
Casing: OD 5 1/2 WT. 15.50 Set At 6362 Tubing: OD 2 3/8 WT. 4.70 T. Perf. 6097
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .665 Estimated _____
Date of Flow Test: From 1-29-61 To 2-6-61 * Date S.I.P. Measured 2-13-61
Meter Run Size 4.00 Orifice Size 1.00 Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 702 psig + 12 = 714 psia (a)
Flowing tubing pressure (Dwt) 541 psig + 12 = 553 psia (b)
Flowing meter pressure (Dwt) 489 psig + 12 = 501 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.0)² x spring constant 1.000 = 490 psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = 11 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = 52 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.1)² x sp. const. 1.000 = 504 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 515 psia (h)
P_t = (h) + (f) _____ = 567 psia (i)
Wellhead casing shut-in pressure (Dwt) 1877 psig + 12 = 1889 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1846 psig + 12 = 1858 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1858 psia (l)
Flowing Temp. (Meter Run) 78 °F + 460 _____ = 538 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 929 psia (n)

Q = 452 * X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = 22.383 \quad 1.0112} \right) = \underline{457} MCF/day
(Integrated) $\sqrt{(d)} = 22.136$$

DELIVERABILITY CALCULATION

D = Q 457 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75} = \underline{397} MCF/day
 $\left[\frac{1858^2 - 929^2}{1858^2 - 571^2} \right]^{.75}$$

SUMMARY

P_c = 1858 psia
Q = 457 Mcf/day
P_w = 571 psia
P_d = 929 psia
D = 397 Mcf/day

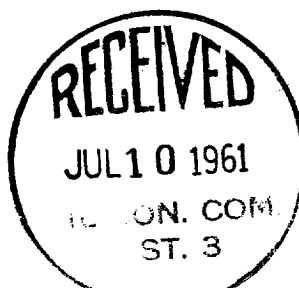
Company Adobe Oil Company
By Hamilton
Title Agent
Witnessed by _____
Company _____

* 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 + R ²	P _w
<u>4054</u>	<u>0.255</u>	<u>18.464</u>	<u>4.708</u>	<u>321.489</u>	<u>326.197</u>	<u>571</u>

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