

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 Blanca Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 5-3-62 (corrected)
Operator Adobe Oil Company Lease Nickels Well No. 1
Unit K Sec. 11 Twp. 31N Rge. 13W Pay Zone: From 4363 To 4434
Casing: OD 5 1/2" WT. 15.5 Set At 6780 Tubing: OD 1" WT. 1.7 T. Perf. 4363
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .689 Estimated _____
Date of Flow Test: From 3-23-62 To 4-1-62 Date S.I.P. Measured 4-8-62
Meter Run Size 4.027 Orifice Size 1.25 Type Chart Sr 10 Type Taps Flg.

OBSERVED DATA

Flowing casing pressure (Dwt) 683 psig + 12 = 695 psia (a)
Flowing tubing pressure (Dwt) 594 psig + 12 = 516 psia (b)
Flowing meter pressure (Dwt) 503 psig + 12 = 515 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.15)² x spring constant 10 = 511 psia (d)
Meter error (c) - (d) or (d) - (c) ± = 4 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 1 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.15)² x sp. const. 10 = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 515 psia (h)
P_t = (h) + (f) = 516 psia (i)
Wellhead casing shut-in pressure (Dwt) 966 psig + 12 = 978 psia (j)
Wellhead tubing shut-in pressure (Dwt) 965 psig + 12 = 977 psia (k)
P_c = (j) or (k) whichever well flowed through = 977 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 = 527° ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 488 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{402}{(\text{integrated})} \times \left(\frac{\sqrt{(c)} = 22.694 = 1.0078}{\sqrt{(d)} = 22.605} \right) = 404 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{404}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{1.1810} \frac{1.1328}{558}} = 558$$

SUMMARY

P_c = 977 psia
Q = 404 Mcf/day
P_w = 590 psia
P_d = 488 psia
D = 458 Mcf/day

Company Adobe Oil Company
By H.D. Roger
Title Engineer
Witnessed by Lennie Kramer
Company Adobe Oil Company

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- * 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
3014	.197	414.594	81.675	266.256	347.931	590

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Section of handwritten text, possibly a list or a series of short paragraphs, with some words like "1941" and "1942" visible.

Section of handwritten text, continuing the notes or list, with some words like "1943" and "1944" visible.

Section of handwritten text, continuing the notes or list, with some words like "1945" and "1946" visible.

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