

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 Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 6/10/60

CONSOLIDATED OIL & GAS, INC. GOVT. TAFOYA
Operator GOVT. TAFOYA Lease GOVT. TAFOYA Well No. 1
Unit N Sec. 35 Twp. 32N Rge. 13W Pay Zone: From 4488' To 4774'
Casing: OD 5-1/2 WT. 17 Set At 4899 Tubing: OD 2" EUE WT. 4.7 T. Perf. 4412
Produced Through: Casing Tubing X Gas Gravity: Measured .690 Estimated
Date of Flow Test: From 4/29/60 To 5/7/60 * Date S.I.P. Measured 5/14/60
Meter Run Size 4" Orifice Size 1.000 Type Chart L-10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 279 psig + 12 = 291 psia (a)
Flowing tubing pressure (Dwt) 247 psig + 12 = 259 psia (b)
Flowing meter pressure (Dwt) 246 psig + 12 = 258 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading psig + 12 = psia (d)
Square root chart reading (5.10)² x spring constant 10 = 260 psia (d)
Meter error (c) - (d) or (d) - (c) ± = -2 psi (e)
Friction loss, Flowing column to meter: = 1 psi (f)
(b) - (c) Flow through tubing; (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading psig + 12 = psia (g)
Square root chart average reading (4.85)² x sp. const. = 235 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 233 psia (h)
P_t = (h) + (f) = 234 psia (i)
Wellhead casing shut-in pressure (Dwt) 467 psig + 12 = 479 psia (j)
Wellhead tubing shut-in pressure (Dwt) 464 psig + 12 = 476 psia (k)
P_c = (j) or (k) whichever well flowed through = 476 psia (l)
Flowing Temp. (Meter Run) 71 °F + 460 = 531 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 238 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{359}{(\text{integrated})} \times \left(\frac{\sqrt{(c)} = 16.06238}{\sqrt{(d)} = 16.12452} = .996146 \right)^* = 358 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{358}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{169932}{169455} \right]^n 1.0028^n} = 358 \text{ MCF/da.}$$

SUMMARY

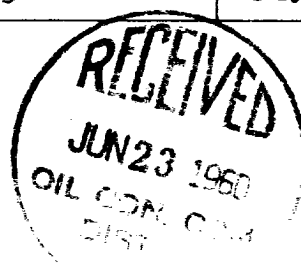
P_c = 476 psia
Q = 358 Mcf/day
P_w = 239 psia
P_d = 238 psia
D = 358 Mcf/day

Company **CONSOLIDATED OIL & GAS, INC.**
By
Title Production Manager
Witnessed by Robert B. Tenison
Company **CONSOLIDATED OIL & GAS, INC.**

- * 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 R ²	(1-e ^{-s})	P _t ² (Column i)	P _t ² + R ²	P _w
3044	.199 x1.00x	11.32939	2.255		54.756	57.011	239



STATE OF NEW MEXICO		
DEPARTMENT OF REVENUE		
SALES TAX RECEIPT		
DATE OF SALE		3
AMOUNT OF SALE		1
SALES TAX		=
TOTAL DUE		
PAID BY		
RECEIVED BY		
SIGNATURE		
DATE		
OFFICE		
TRANSPORTER		
RECEIVED OFFICE		
OPERATOR		