

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 Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Date Test Filed 6-17-57

Operator COLORADO WESTERN EXPLORATION, INC. Lease Chavez Well No. 4492 /
Unit A Sec. 2 Twp. 31N Rge. 13W Pay Zone: From 4431 To 4499
Casing: OD 7 WT. 20 & 23 Set At 4403 Tubing: OD 2-7/8 WT. 6.5 T. Perf. 4499
Produced Through: Casing _____ Tubing x Gas Gravity: Measured 0.675 Estimated _____
Date of Flow Test: From 5-17 To 5-25 * Date S.I.P. Measured Dec. 1956
Meter Run Size 4" Orifice Size 1.25 Type Chart L-10 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 (7.5) ² x sp. const. 10 _____ = 562 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 562 psia (h)
P_t = (h) + (f) _____ = 562 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 978 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 972 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 972 psia (l)
Flowing Temp. (Meter Run) _____ 89.8 F + 460 _____ = 532 ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 486 psia (n)

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

DELIVERABILITY CALCULATION

D = Q _____ $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0097 - 1.13^{0.75}}{1.0097 - 1.13^{0.75}} = 1.095 \times 504 = 551$ MCF/da.

SUMMARY

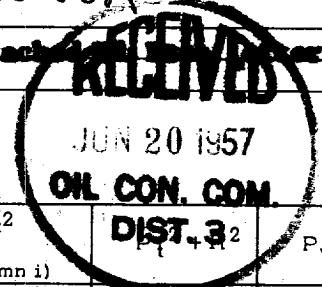
P_c = 972 psia
Q = 504 Mcf/day
P_w = 564 psia
P_d = 486 psia
D = 551 Mcf/day

Company COLORADO WESTERN EXPLORATION, INC.
By [Signature]
Title President
Witnessed by (see attached) for data
Company source

- * 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 + 32 DIST. 32	P _w
3170	0.206	7.84	1.62	316,000	317,620	564



[Signature]