

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 Formation Dakota County RA
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1/28/60
Operator Skelly Oil Company Lease Mexico-Ped "A" Well No. 1
Unit I Sec. 10 Twp. 24N Rge. 6W Pay Zone: From 6475' To 6536'
Casing: OD 7" WT. 20 & 23# Set At 6749 Tubing: OD 2" WT. 4.7# T. Perf. 6554-58
Produced Through: Casing Tubing X Gas Gravity: Measured 0.656 Estimated
Date of Flow Test: From 12-1-59 To 12-7-59 * Date S.I.P. Measured 10-25-59
Meter Run Size 4" Orifice Size 1.000 Type Chart SR 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 (7.00) ² x sp. const. 10.00 = 490 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 2199 psig + 12 = 2211 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2211 psia (l)
Flowing Temp. (Meter Run) 56 °F + 460 _____ = 516 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 1106 psia (n)

FLOW RATE CALCULATION

$$Q = \text{_____} \times \left(\frac{\frac{V(c)}{V(d)}}{\text{_____}} \right)^* = \text{_____} \text{ MCF/da}$$

(Integrated)

DELIVERABILITY CALCULATION

$$D = Q \text{ 245 } \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{3,665,285}{4,646,994} \text{ }^n \text{ 0.7887 }^{.75} = \text{.8370} = \text{ 205 } \text{ MCF/da.}$$

SUMMARY

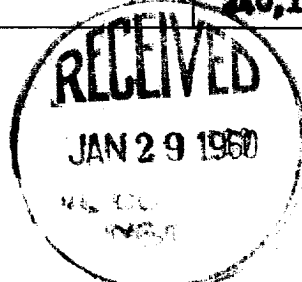
P_c = 2211 psia
Q = 245 Mcf/day
P_w = 491 psia
P_d = 1106 psia
D = 205 Mcf/day

Company Skelly Oil Company
By F. E. Casper
Title District Superintendent
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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>4301</u>	<u>0.269</u>	<u>5.304</u>	<u>1.427</u>		<u>240,100</u>	<u>241,527</u>	<u>491</u>



OK

