

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 BASIN Formation DAKOTA County SAN JUAN
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed _____

Operator SKELLY OIL COMPANY Lease NEW MEXICO "B" Well No. 1
Unit P Sec. 32 Twp. 27N Rge. 9W Pay Zone: From 6683 To 6803
Casing: OD 4-1/2" WT. 10.5 & 11.6# Set At 6949 Tubing: OD 2-3/8" WT. 4.7# T. Perf. 6792
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .700 Estimated _____
Date of Flow Test: From 12-2-65 To 12-10-65 * Date S.I.P. Measured 9-17-64
Meter Run Size 4.027" I.D. Orifice Size 1.500" Type Chart S.R. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 815 psig + 12 = 827 psia (a)
Flowing tubing pressure (Dwt) 669 psig + 12 = 681 psia (b)
Flowing meter pressure (Dwt) 467 psig + 12 = 479 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (6.94)² x spring constant 10.00 = 482 psia (d)
Meter error (c) - (d) or (d) - (c) ± = -3 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 202 psi (f)
Seven-day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (_____)² x sp. const. = 464 psia (g)
Corrected seven day avge. meter press. (pf) (g) + (e) = 461 psia (h)
P_t = (h) + (f) = 663 psia (i)
Wellhead casing shut-in pressure (Dwt) 2005 psig + 12 = 2017 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1980 psig + 12 = 1992 psia (k)
P_c = (j) or (k) whichever well flowed through = 2017 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 1009 psia (n)

Q = 1281 x $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{.9937}{21.88607} = .9969} \right) = \underline{1277} \text{ MCF/da}$
(Integrated) $\sqrt{(d)} = \underline{21.95450}$

DELIVERABILITY CALCULATION

D = Q 1277 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.8504^{.75}} = \underline{1131} \text{ MCF/da.}$
 $\frac{3050208}{3586653}$
 $\frac{.9969}{.9969}$

SUMMARY
P_c = 2017 psia
Q = 1250 1277 Mcf/day
P_w = 693 694 psia
P_d = 1009 psia
D = 1131 Mcf/day

Company SKELLY OIL COMPANY
By Sm mullen
Title AREA FOREMAN
Witnessed by _____
Company _____
JAN 21 1966

* 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>4754</u>	<u>.292</u>	<u>130.101</u>	<u>40.991</u>	<u>439.569</u>	<u>479.900</u>	<u>694</u>

Flowing thru open choke at well w / 21 64 choke setting at heater. 481.6 = 9

CORRECTED COPY

CORRECTED COPY

Incorrect flow rate used for previous calculation.

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