

3 NMOC
1 McKay
1 NWP
1 Empire States
1 Reese
1 File

Initial Deliverability Test

Form C-122-A
Revised April 20, 1955

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 Astec Ext. Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____
Operator McKay, Payne & Zachry Lease Uptegrove Well No. 1
Unit P Sec. 2 Twp. 30N Rge. 12W Pay Zone: From 2072 To _____
Casing: OD 5-1/2" WT. 144 Set At 2200 Tubing: OD 1" WT. 1.70 T. Perf. 2074
Produced Through: Casing I Tubing _____ Gas Gravity: Measured .681 Estimated _____
Date of Flow Test: From _____ To _____ * Date S.I.P. Measured 6-29-58
Meter Run Size 4" Orifice Size .750 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 (7.15) ² x sp. const. 5 _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ psia (h)
P_t = (h) + (f) _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 659 psig + 12 = 671 psia (j)
Wellhead tubing shut-in pressure (Dwt) 656 psig + 12 = 668 psia (k)
P_c = (j) or (k) whichever well flowed through _____ psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ psia (n)

FLOW RATE CALCULATION

Q = 190 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{190}{1} = 190$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 190 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.85} = \frac{337,345}{378,250}^{.85} = \frac{.90732}{(.89186)}^{.85} = 172$ MCF/da.

SUMMARY

P_c = 671 psia
Q = 190 Mcf/day
P_w = 268 psia
P_d = 336 psia
D = 172 Mcf/day

Company McKay, Payne & Zachry
By Original signed by T. A. Dugan
Title Consulting Engineer
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 (1-e ^{-S}) R ²	P _t ² (Column 4)	P _c ² + R ²	P _w
1412	.098	91.7	8.99	61,901	62,801	268

RECEIVED
NOV 12 1958
OIL CON. COM.
DIST. 3