

Initial Deliverability
TestForm C-122-A
Revised April 20, 1955NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - SAN JUAN BASIN(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERBE, & ALL BAKOTA
EXCEPT BARKER DOME STORAGE AREA)Pool Fulcher Kutz Formation Dakota County San JuanPurchasing Pipeline Southern Union Gas Co. Date Test Filed 3-29-58Operator McRae Oil & Gas Corp. Lease ~~McRae~~ Fulcher (Well No. 1)
Unit A Sec. 28 Twp. 28N Rge. 10W Pay Zone: From 6444 To 6672
Casing: OD 5½" WT. 17# Set At 6721 Tubing: OD 2 3/8" WT. 4.7# T. Perf. 6595
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .667 Estimated _____
Date of Flow Test: From 3-3-58 To 3-16-58 * Date S.I.P. Measured 2-15-58
Meter Run Size 4" Orifice Size 2.250 Type Chart Normal Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt)	<u>600</u>	psig + 12 =	<u>612</u>	psia	(a)
Flowing tubing pressure (Dwt)	<u>462</u>	psig + 12 =	<u>474</u>	psia	(b)
Flowing meter pressure (Dwt)	<u>210</u>	psig + 12 =	<u>222</u>	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:					
Normal chart reading	<u>212</u>	psig + 12 =	<u>224</u>	psia	(d)
Square root chart reading () ² x spring constant				psia	(d)
Meter error (c) - (d) or (d) - (c)		±		<u>-2</u>	psi (e)
Friction loss, Flowing column to meter:					
(b) - (c) Flow through tubing: (a) - (c) Flow through casing				<u>252</u>	psi (f)
Seven day average static meter pressure (from meter chart):					
Normal chart average reading	<u>218</u>	psig + 12 =	<u>230</u>	psia	(g)
Square root chart average reading () ² x sp. const.				psia	(g)
Corrected seven day avge. meter press. (p _f) (g) + (e)				<u>228</u>	psia (h)
P _f = (h) + (f)				<u>480</u>	psia (i)
Wellhead casing shut-in pressure (Dwt)	<u>1975</u>	psig + 12 =	<u>1987</u>	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	<u>1975</u>	psig + 12 =	<u>1987</u>	psia	(k)
P _c = (j) or (k) whichever well flowed through				<u>1987</u>	psia (l)
Flowing Temp. (Meter Run)	<u>58</u>	°F + 460		<u>518</u>	° Abs (m)
P _d = ½ P _c = ½ (l)				<u>994</u>	psia (n)

FLOW RATE CALCULATION

$$Q = \frac{1898}{(\text{integrated})} \times \left(\frac{\frac{V(c)}{V(d)} = \frac{14.90}{14.97} = .9953}{\right)} = 1889 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{1889}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{2960133}{3631344} \right]^n \cdot .75 \cdot .8579} = 1621 \text{ MCF/day}$$

SUMMARY

P _c =	<u>1987</u>	psia
Q =	<u>1889</u>	Mcf/day
P _w =	<u>563</u>	psia
P _d =	<u>994</u>	psia
D =	<u>1621</u>	Mcf/day

Company	<u>Well Production Co.</u>
By	<u>N.A. Neely</u>
Title	<u>Owner</u>
Witnessed by	<u>[Signature]</u>
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})	P _i ²	P _i ² + R ²	P _w
			R ²	(Column i)		
4399	.274	315418	86425	230400	316825	563

