

OIL CONSERVATION COMMISSION
AZTEC DISTRICT OFFICE

No. Copies Received 3

DISTRIBUTION

	NO. FURNISHED	
Operator		
Santa Fe	1	
Production Office		
State Land Office		
U. S. G. S.	1	
Transporter		
File	1	✓

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 Pictured Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease Harvey State Well No. 4
Unit 0 Sec. 16 Twp. 25N Rge. 6W Pay Zone: From 2290 To 2350
Casing: OD 7 WT. 20 Set At 2290 Tubing: OD 1 1/4 WT. 2.3 T. Perf. 2300
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .625 Estimated _____
Date of Flow Test: From 2/8 To 2/16/56 * Date S.I.P. Measured 12/21/55
Meter Run Size 4 Orifice Size _____ Type Chart Sq. Rt. 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.40) ² x sp. const. 5 = 274 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 274 psia (h)
P_t = (h) + (f) = 274 psia (i)
Wellhead casing shut-in pressure (Dwt) 849 psig + 12 = 861 psia (j)
Wellhead tubing shut-in pressure (Dwt) 849 psig + 12 = 861 psia (k)
P_c = (j) or (k) whichever well flowed through = 861 psia (l)
Flowing Temp. (Meter Run) 48 °F + 460 = 508 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 431 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{190} MCF/da
(integrated)$

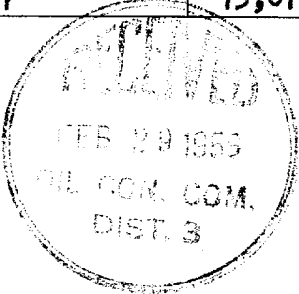
DELIVERABILITY CALCULATION
D = Q 190 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{163} MCF/da.
 $\frac{555,560}{664,078}$ $\frac{.8366}{.8592}$$

SUMMARY
P_c = 861 psia Company El Paso Natural Gas Company
Q = 190 Mcf/day By Original Signed
P_w = 278 psia Title Lewis D. Galloway
P_d = 431 psia Witnessed by _____
D = 163 Mcf/day 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 i)	P _t ² + R ²	P _w
<u>1438</u>	<u>.099</u>	<u>21.884</u>	<u>2,167</u>	<u>75,076</u>	<u>77,243</u>	<u>278</u>

D @ 250 = 192



C/K