

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 South Blanco P.C. Formation Picture Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 7-14-58
Operator Hugh McMillan Lease Hall Well No. 3
Unit E Sec. 28N Twp. 25N Rge. 3W Pay Zone: From 3686 To 3724
Casing: OD 5 1/2 WT. 15.5 Set At 3770 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 3714
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .656 Estimated _____
Date of Flow Test: From 6-23-58 To 6-29-58 * Date S.I.P. Measured 4-15-58
Meter Run Size 4" Orifice Size 1.000 Type Chart Sq. Rt. Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) 210 psig + 12 = 222 psia (a)
Flowing tubing pressure (Dwt) 210 psig + 12 = 222 psia (b)
Flowing meter pressure (Dwt) 210 psig + 12 = 222 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (6.7)² x spring constant 500 = 225 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 = 0 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.75)² x sp. const. 500 = 228 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 225 psia (h)
P_t = (h) + (f) = 225 psia (i)
Wellhead casing shut-in pressure (Dwt) 1018 psig + 12 = 1030 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1018 psig + 12 = 1030 psia (k)
P_c = (j) or (k) whichever well flowed through = 1030 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 = 528 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 515 psia (n)

FLOW RATE CALCULATION

Q = 298 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{14.90}{15.00} = .9933 \right) = \underline{296} MCF/da
(integrated)$

DELIVERABILITY CALCULATION

D = Q 296 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.85} = \underline{242} MCF/da.
 $\left[\frac{795675}{1010275} \right]^{.85} = .8162$$

SUMMARY

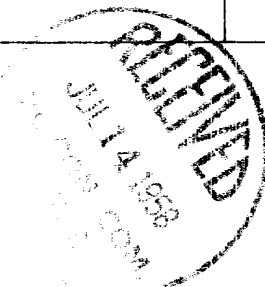
P_c = 1030 psia
Q = 296 Mcf/day
P_w = 225 psia
P_d = 515 psia
D = 242 Mcf/day

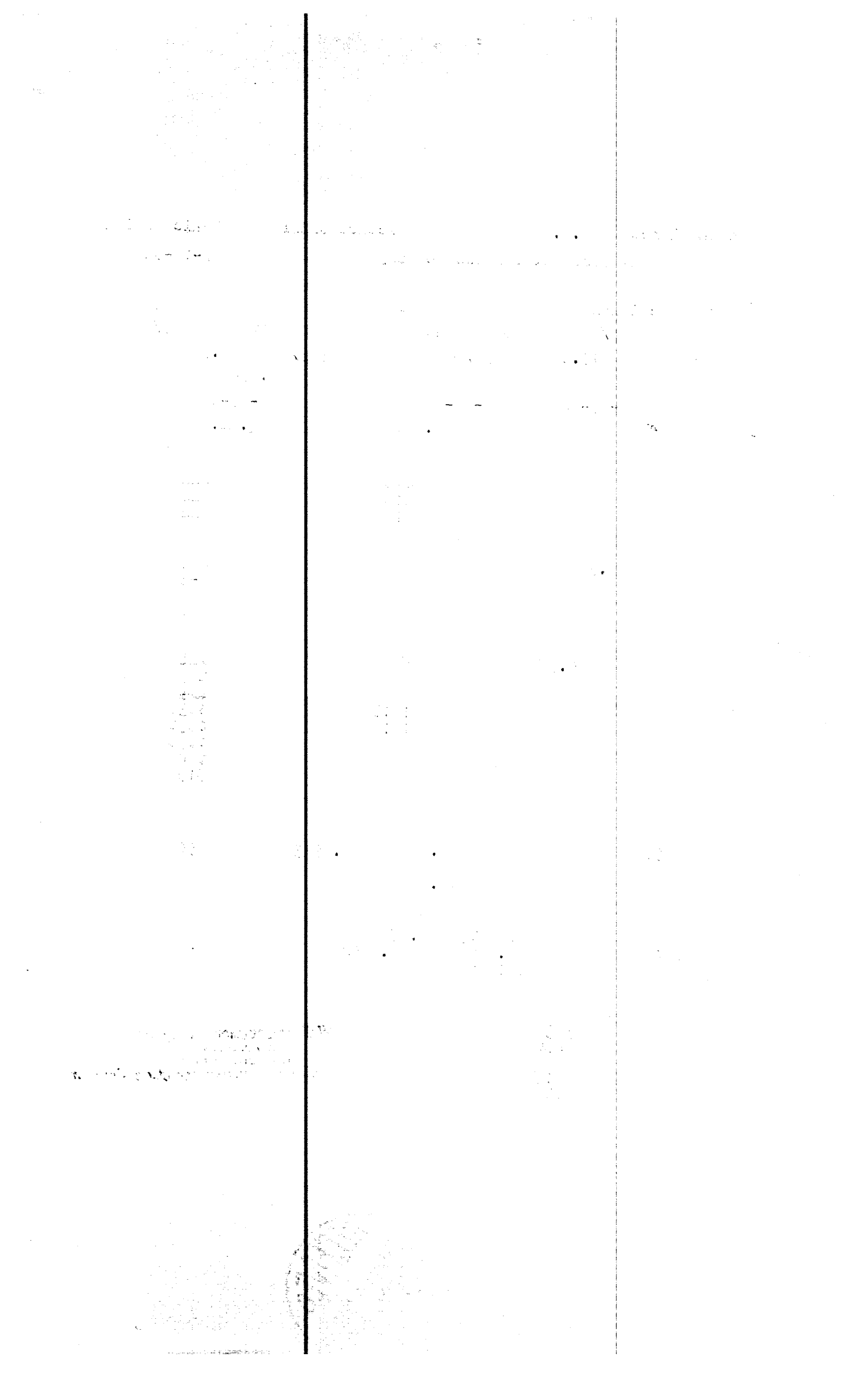
Company Well Production Company
By N. A. NEELY, OWNER
Title 1041 ZUNI DRIVE
Witnessed by FARMINGTON, NEW MEXICO
Company _____

- * 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





NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

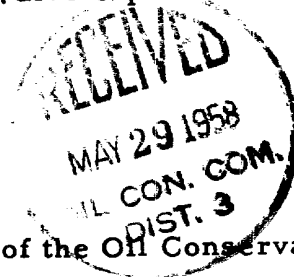
Form C-110
Revised 7/1/55 ✓

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Hugh McMillan Lease Hall
Well No. 3 Unit Letter E S28 T25N R3W Pool Undesignated
County Rio Arriba Kind of Lease (State, Fed. or Patented) Federal
If well produces oil or condensate, give location of tanks: Unit S T R
Authorized Transporter of Oil or Condensate _____
Address _____
(Give address to which approved copy of this form is to be sent)
Authorized Transporter of Gas El Paso Natural Gas Co.
Address Reilly Heights, Farmington, New Mexico
(Give address to which approved copy of this form is to be sent)
If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well X)
Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()
Change in Ownership _____ () Other _____ ()
Remarks: _____
(Give explanation below)



The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 25 day of May 1958

By Jay J. Harris
Title Geologist

Approved MAY 19 1958 1958

OIL CONSERVATION COMMISSION

Company Hugh McMillan

By Original Signed Emery C. Arnold

Address 4201 Alabama

Title _____

El Paso, Texas

1. Name of the person or organization		
2. Address		
3. City		
4. State		
5. Zip		
6. Telephone		
7. Fax		
8. E-mail		
9. Other		
10. Signature		
11. Date		
12. File		