

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 BJ
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____
Operator El Paso Natural Gas Co. Lease Sellers Well No. 2
Unit B Sec. 30 Twp. 30 Rge. 10 Pay Zone: From 7011 To 7234
Casing: OD 5500 WT. 1700 Set At 7334 Tubing: OD 2375 WT. 0470 T. Perf. 7185
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .644 Estimated _____
Date of Flow Test: From 5-14-61 To 5-21-61 * Date S.I.P. Measured 9-16-60
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

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 (_____) ² x sp. const. _____ = 469 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 469 psia (h)
P_t = (h) + (f) _____ = 469 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 2160 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 2182 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2182 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 1091 psia (n)

Q = 1112 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{1.0000}{\sqrt{(d)}} = \frac{1.0000}{\sqrt{(d)}} \right) = \underline{1112} MCF/da
(Integrated)$

DELIVERABILITY CALCULATION

D = Q 1112 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{.8392} = \underline{933} MCF/da.$

SUMMARY

P_c = 2182 psia Company El Paso Natural Gas Co.
Q = 1112 Mcf/day By H. L. Kendrick Sr. Gas Engineer
P_w = 501 psia Title _____
P_d = 1091 psia Witnessed by Original signed by
D = 933 Mcf/day Company H. L. Kendrick

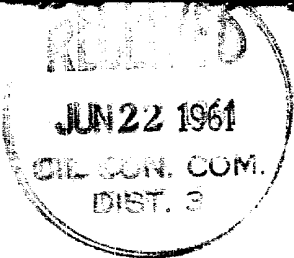
* This is rate of completion test
* Meter error correction factor

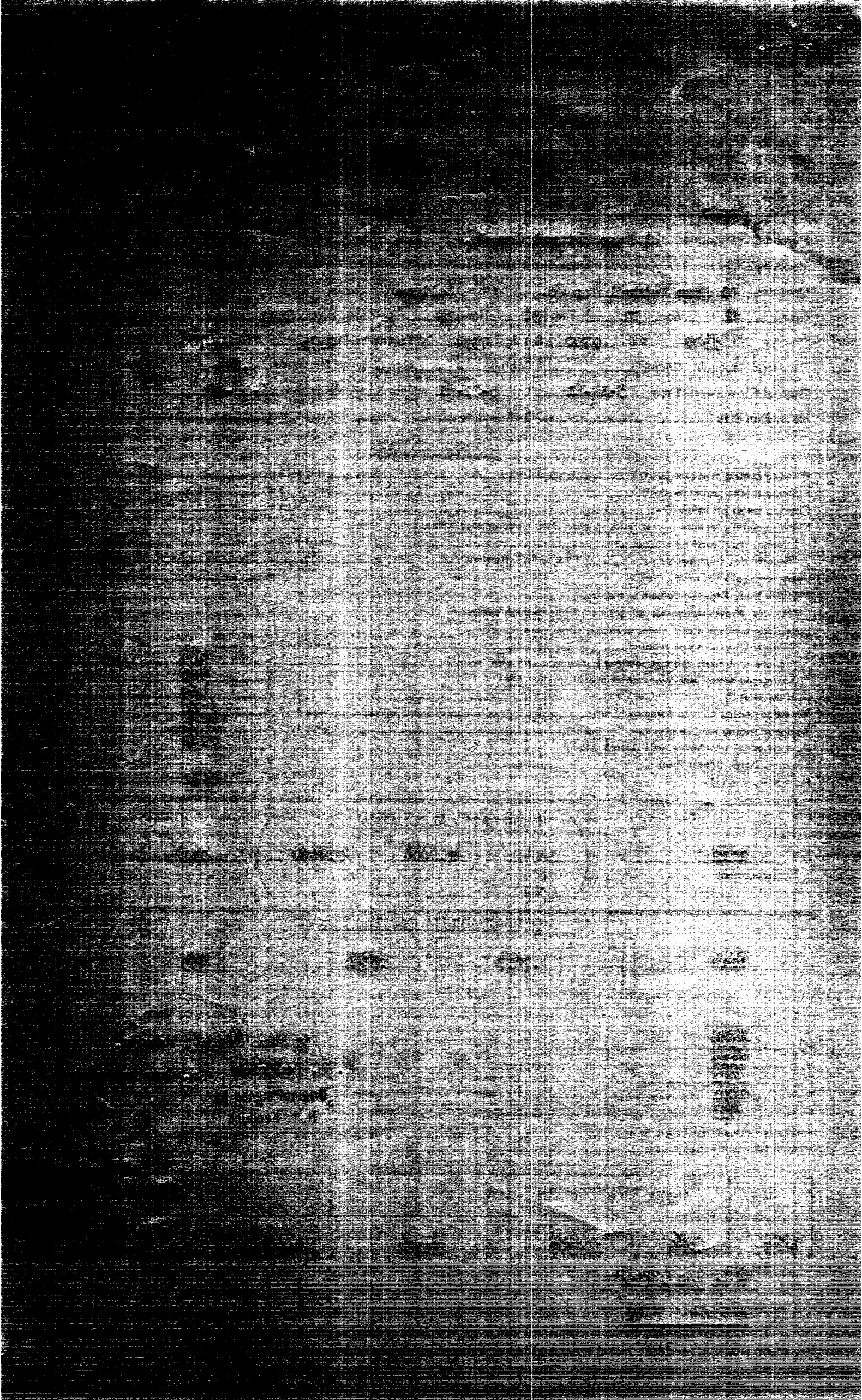
REMARKS OR FRICTION CALCULATIONS

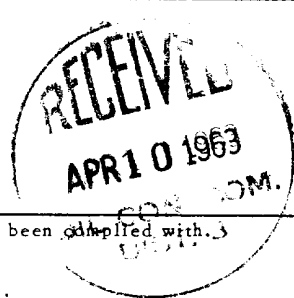
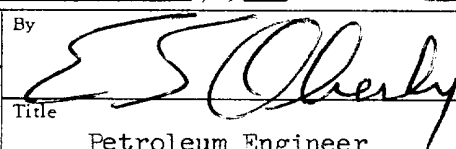
| GL | (1-e ^{-S}) | (F _c Q) ² | (F _c Q) ² (1-e ^{-S}) R ² | P _t ² (Column i) | P _t ² + R ² | P _w |
|------|----------------------|---------------------------------|--|---|--|----------------|
| 4627 | .286 | 109307 | 31262 | 219961 | 221223 | 501 |

d at 500 = 1104

CORRECTED COPY





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|--|----------------------|--|---|----------------------------------|
| NUMBER OF COPIES RECEIVED DISTRIBUTION <u>6</u> | | NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS | | FORM C-110 (Rev. 7-60) |
| FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE | | | | |
| Company or Operator El Paso Natural Gas Company | | | Lease Sellers | |
| Well No. 2 | | | | |
| Unit Letter B | Section 30 | Township 30-N | Range 10-W | County San Juan |
| Pool Basin Dakota | | | Kind of Lease (State, Fed, Fee) Federal | |
| If well produces oil or condensate give location of tanks | | Unit Letter Same | Section | Township |
| | | Range | | |
| Authorized transporter of oil <input type="checkbox"/> or condensate <input checked="" type="checkbox"/> | | | Address (give address to which approved copy of this form is to be sent) | |
| El Paso Natural Gas Company | | | Box 990, Farmington, New Mexico | |
| Is Gas Actually Connected? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | | |
| Authorized transporter of casing head gas <input type="checkbox"/> or dry gas <input checked="" type="checkbox"/> | | Date Connected 4-26-61 | Address (give address to which approved copy of this form is to be sent) | |
| El Paso Natural Gas Company | | | Box 990, Farmington, New Mexico | |
| If gas is not being sold, give reasons and also explain its present disposition: | | | | |
| REASON(S) FOR FILING (please check proper box) | | | | |
| New Well <input type="checkbox"/> | | | | |
| Change in Ownership <input type="checkbox"/> | | | | |
| Change in Transporter (check one) | | | | |
| Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> | | | | |
| Casing head gas . <input type="checkbox"/> Condensate.. <input checked="" type="checkbox"/> | | | | |
| Other (explain below) | | | | |
| Remarks | | | | |
|  | | | | |
| The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with. | | | | |
| Executed this the <u>1st</u> day of <u>January</u> , 19 <u>63</u> . | | | | |
| OIL CONSERVATION COMMISSION | | | By  | |
| Approved by Original Signed By A. R. KENDRICK | | | Title Petroleum Engineer | |
| Title PETROLEUM ENGINEER DIST. NO. 3 | | | Company El Paso Natural Gas Company | |
| Date APR 10 1963 | | | Address Box 990, Farmington, New Mexico | |