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# Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION

## GAS WELL TEST DATA SHEET - SAN JUAN BASIN

OperatorEL PASO NATURAL GAS CC Purchasing Pipeline  Pd: % Of P. Comm. Designated Pr., psia Period Of Test Flow  8C From 04-15-66 To 04  Deadweight Flowing Pressure, psia  Casing (a) Tubing (b) Meter  Deadweight Shut-In Pressures, psia  Casing 673 (J) Tubing 678 (k)  7 Day-Avg. Flowing Pres., psia  Chart 504 (g) Corrected 504 (h) Pr.  G. L. = 3777	PASC NATUR -23-66  ——————————————————————————————————	UBING  L 5646 Top Pe  AL GAS COMPAN  SIP Measured  08-09-65  Flowing Pressure, psi  Chart  Friction Loss  0  Gravity 669  Q)2 57.714
Operator, EL PASO NATURAL GAS CO Purchasing Pipeline  Pd. % Of P. Comm. Designated Pt., psia Period Of Test Flow  80 From 04-15-66 To 04  Deadweight Flowing Pressure, psia  Casing (a) Tubing (b) Meter  Deadweight Shut-In Pressures, psia  Casing 673 (J) Tubing 678 (k)  7 Day-Avg. Flowing Pres., psia  Chart 504 (g) Corrected 504 (h) Proceeds (integrated) X (c) 1-e - 240 Fc (l) Proceeds (integrated) X (c) 1-0000 1 Proceeds (integrated) X (c) 1-0000 1 Proceeds (integrated) X (c) 1-0000 1 Proceeds (integrated) X (c) 1-10000 1	75 ID 1.995  PASC NATUR  -23-66  ——————————————————————————————————	L 5646 Top Pe  AL GAS COMPAN  SIP Measured
OperatoEL PASO NATURAL GAS CC         Purchasing Pipeline           Pd: % Of Pr. Comm. Designated Pr., psia         Period Of Test Flow 80           FromC4-15-66	PASC NATUR  -23-66  ——————————————————————————————————	SIP Measured  08-09-65  Flowing Pressure, psi  Chart  Friction Loss  0  Gravity 669  2 = 267867
Pd: % Of Pc Comm. Designated Pc, psia Period Of Test Flow 80 From C4-15-66 To $94$ Deadweight Flowing Pressure, psia  Casing (a) Tubing (b) Meter Deadweight Shut-In Pressures, psia  Casing $673$ (J) Tubing $678$ (k)  7 Day-Avg. Flowing Pres., psia  Chart $504$ (g) Corrected $504$ (h) Proceedings of the process of the	-23-66  ——————————————————————————————————	SIP Measured $08-09-65$ Flowing Pressure, psi Chart  Friction Loss  0  Gravity $-669$ $Q)^2 - 57.714$ $3^2 = 267867$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(c)  Meter Error  000 & (e)  504 (i)  9.402 (Fc	Flowing Pressure, psi  Chart  Friction Loss  O  Gravity $\frac{\bullet 669}{2}$ $\frac{2}{3} = \frac{267867}{808}$
Deadweight Flowing Pressure, psia  Casing	(c)  Meter Error  000 & (e)  504 (i)  9.402 (Fc	Flowing Pressure, ps  Chart  Friction Loss  O  Gravity $-669$ $Q)^2$ $-57.714$ $-32 = 267867$
Casing	Meter Error  000 & (e)  504 (i)  9.402 (Fc	Chart
Deadweight Shut-In Pressures, psia  Casing 673 (J) Tubing 678 (k)  7 Day-Avg. Flowing Pres., psia  Chart 504 (g) Corrected 504 (h)  G. L. = 3777	Meter Error  000 & (e)  504 (i)  9.402 (Fc	Chart
Casing 673 (J) Tubing 678 (k)  7 Day-Avg. Flowing Pres., psia  Chart 504 (g) Corrected 504 (h) Proceed 6.1. = 3777  1-e -5 = -240  Fc = (1-e -5) (FcQ) $^2$ = R $^2$ = 13851  Q = $\frac{808}{(integrated)} \times \left[ \sqrt{\frac{(c)}{(P_c^2 - P_c^2)}} \right]^n = \frac{165920}{191817}^n = \frac{1}{2}$ REMARKS  UNABLE TO DETAIN 25% CRAWDOWN.  Installed Piston Installation 3-16-66.	9.402 (Fc	Friction Loss  O  Gravity $-669$ Q) <sup>2</sup> $-57.714$ $-2 = 267867$
Today Avg. Flowing Pres., psia  Chart	504(i) 9.402(Fc	Gravity $-669$ $Q)^2 - 57.714$ $Q^2 = 267867$
Chart $\frac{504}{(g)}$ Corrected $\frac{504}{(h)}$ P <sub>1</sub> G. L. = $\frac{3777}{1 - e^{-5}} = \frac{.240}{1 - e^{-5}}$ F <sub>c</sub> $\frac{.254016}{(1 - e^{-5})}$ (F <sub>c</sub> Q) <sup>2</sup> = R <sup>2</sup> = $\frac{13851}{(g)}$ P <sub>i</sub> = $\frac{.254016}{(g)}$ Q = $\frac{808}{(integrated)} \times \left[ \frac{(e)}{(p^2 - p_3^3)} \right]^n = \frac{165920}{191817} = \frac{(e^{-2} - p_3^3)^n}{(p^2 - p_2^3)^n} = \frac{(e^{-2} - p_3^3)^n}{191817} = \frac{(e^{-2} - p_3^3)^n}{(p^2 - p_2^3)^n} = \frac{(e^{-2} - p_3^3)^n}{191817} = \frac{(e^{-2} - p_3^3)^n}{(p^2 - p_2^3)^n} = \frac{(e^{-2} - p_3^3)^n}{191817} = \frac{(e^{-2} - p_3^3)^n}{(p^2 - p_2^3)^n} = \frac{(e^{-2} - p_3^3)^n}{191817} = \frac{(e^{-2} - p_3^3)^n}{(p^2 - p_2^3)^n} = \frac{(e^{-2} - p_3^3)^n}{191817} = \frac{(e^{-2} - p_3^3)^n}{191817$	9.402 (Fc	Gravity $-669$ $Q)^2 - 57.714$ $Q^2 = 267867$
G. L. = $\frac{3777}{1 - e^{-3}} = \frac{.240}{F_c}$ $A = \frac{808}{(integrated)} \times \left[ \frac{(c)}{(d)} = \frac{1.0000}{191817} \right]^n = \frac{165920}{(P_c^2 - P_c^2)} = \frac{165920}{191817} = \frac{1}{191817}$ REMARKS  UNABLE TO DETAIN 25% CRAWDOWN.  Installed Piston Installation 3-16-66.	9.402 (Fc	$Q)^2 = \frac{57.714}{2^2 = 267867}$
G.L. = $\frac{3777}{1 - e^{-5}} = \frac{.240}{1 - e^{-5}}$ F <sub>c</sub> = $\frac{.240}{1 - e^$	9.402 (Fc	$Q)^2 = \frac{57.714}{2^2 = 267867}$
(1-e <sup>-5</sup> ) $(F_cQ)^2 = R^2 = 13851$ $Q = \frac{808}{(integrated)} \times \left[ \frac{(c)}{(d)} - \frac{1.0000}{191817} \right]^n = \frac{165920}{(P_c^2 - P_c^2)} = \frac{165920}{191817}^n = \frac{(P_c^2 - P_c^2)}{(P_c^2 - P_c^2)} = \frac{165920}{191817}^n = \frac{(P_c^2 - P_c^2)}{(P_c^2 - P_c^2)} = (P$		2 = 267867
$Q = \frac{8C8}{\text{(integrated)}} \times \left[ \frac{(c)}{(d)} - \frac{1.0000}{191817} \right]^n = \frac{1}{191817}$ $D = Q = \frac{808}{\text{(integrated)}} \times \left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_d^2)} \right]^n \left[ \frac{165920}{191817} \right]^n = \frac{(P_c^2 - P_d^2)}{191817}$ $REMARKS$ $UNABLE TO GETAIN 25% ERAWDOWN.$ $Installed Piston Installation 3-16-66.$		2 = 267867
$Q = \frac{808}{\text{(integrated)}} \times \left[ \sqrt{\frac{c}{d}} \right] = \frac{1.0000}{191817} = \frac{1}{165920}$ $REMARKS$ $UNABLE TO GETAIN 25% ERAWDOWN.$ $Installed Piston Installation 5-16-66.$	.0000	808
D=Q $\frac{808}{\sqrt{\frac{(P_c^2-P_d^2)}{(P_c^2-P_d^2)}}} = \frac{165920}{191817}^n = \frac{1}{\sqrt{\frac{(P_c^2-P_d^2)}{(P_c^2-P_d^2)}}} = \frac{1}{\sqrt{\frac{(P_c^2-P_d^2)}{(P_c^2-P_d^2)}}}} = \frac{1}{\sqrt{\frac{(P_c^2-P_d^2)}{(P_c^2-P_d^2)}}} = \frac{1}{\sqrt{\frac{(P_c^2-P_d^2)}{(P_c^2-P_d^2)}}} = \frac{1}{\sqrt{\frac{(P_c^2-P_d^2)}{(P_c^2-P_d^2)}}} = \frac{1}{\sqrt{\frac{(P_c^2-P_d^2)}{(P_c^2-P_d^2)}}}} = \frac{1}{\sqrt{\frac{(P_c^2-P_d^2)}}}} = \frac{1}{\sqrt{\frac{(P_c^2-P_d^2)}{(P_c^2-P_d$	.0000	808
D=Q $\frac{808}{\left(\frac{P_c^2-P_d^3}{(P_c^2-P_u^2)}\right)^n} = \frac{165920}{191817}^n = \frac{1}{191817}^n = $	•0000	808
D=Q $\frac{808}{\left(\frac{P_c^2}{P_c^2} - \frac{P_d^2}{P_c^2}\right)} = \frac{165920}{191817}^n = \frac{1}{191817}^n $	=	
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REMARKS  UNABLE TO GETAIN 25% CRAWDOWN.  Installed Piston Installation 3-16-66.  SUMMARY	$\frac{.8649}{.8969}$ =	725
Installed Piston Installation 3-16-66.		
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## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

FORM C-110 (Rev. 7-60)

### CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

OPERATOR FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE Well No. Company or Operator San Juan 32-9 #5 (OWWO) El Paso Natural Gas Company Township Range Section Unit Letter San Juan 15 31-N 9-W Kind of Lease (State, Fed. Fee) Pool Federal. Blanco Mesa Verde Unit Letter Section If well produces oil or condensate give location of tanks Same Address (give address to which approved copy of this form is to be sent) Authorized transporter of oil or condensate X Box 990, Farmington, New Mexico El Paso Natural Gas Company Is Gas Actually Connected? Yes X No Addtess (give address to which approved copy of this form is to be sent) Date Con-Authorized transporter of casing head gas or dry gas X 10-14-53 Box 990, Farmington, New Mexico El Paso Natural Gas Company If gas is not being sold, give reasons and also explain its present disposition: REASON(S) FOR FILING (please check proper box) New Well ..... Change in Ownership . . . . . . . . . . . . . . Change in Transporter (check one) Other (explain below) Oil . . . . . . . . Dry Gas . . . . Casing head gas . Condensate . . X Remarks The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with. January , 19<u>63</u> Executed this the <u>lst</u> day of \_\_ Ву OIL CONSERVATION COMMISSION Approved by Original Stated Emery C. Arnold Petroleum Engineer Title Supervisor Dist. # 3 El Paso Natural Gas Company Address APR 2 5 1963 Box 990, Farmington, New Mexico