

Initial
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 1970

Form C122-A
Revised 1-1-68

POOL NAME Ballard	POOL SLOPE n = .85	FORMATION PC	COUNTY SJ
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74-717

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Caccia Com "A" No. 3		
UNIT LETTER M	SECTION 32	TOWNSHIP 27	RANGE 8	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 7.625	CASING I.D. - INCHES 6.969	SET AT DEPTH - FEET 2353	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 2147
GAS PAY ZONE FROM 2163 TO 2214		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .644	GRAVITY X LENGTH 1383
DATE OF FLOW TEST FROM 8-24-70 TO 9-1-70			DATE SHUT-IN PRESSURE MEASURED 7-23-70		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DWt)	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
-	-	-	-	0	0	146
(h) Corrected Meter Pressure (g-f)	(i) Avg. Wellhead Press. $P_w = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_m higher value of (i) or (k)	(m) Del. Pressure $P_d = 80\% P_m$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
146	146	361	361	361	289	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
165	1.0000	1.0000	Q = 165 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_i^2	$P_w^2 = P_i^2 - R^2$	$P_w = \sqrt{P_w^2}$
.096	16502	1584	21316	22900	151

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 165 \left[\frac{46800}{107421} \right]^{.4356} = .4934 = 81 \text{ MCF/D}$$

REMARKS:

OWWO, 1st del. 8-10-70

SUMMARY

Item h	146	Psia
P _c	361	Psia
Q	165	MCF/D
P _w	151	Psia
P _d	289	Psia
D	81	MCF/D

Company **EL PASO NATURAL GAS COMPANY**
By **D. E. [Signature]**
Title
Witnessed By
Company



