

Initial
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-68

POOL NAME BLANCO	POOL SLOPE n = .85	FORMATION PC	COUNTY SJ
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75-710

COMPANY EL PASO NATURAL GAS CO.			WELL NAME AND NUMBER DAY A #8		
UNIT LETTER G	SECTION 8	TOWNSHIP 29	RANGE 8	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3217	TUBING O.D. - INCHES 0.000	TUBING I.D. - INCHES 0.000	TOP - TUBING PERF. - FEET 0
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 3114	TO 3142	CASING X	TUBING	0.658	2049 ✓
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 01/09/68	TO 01/17/68	09/19/67			

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	0	0	0	0	278
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_t = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P_c =$ higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{100} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
278 ✓	278 ✓	1017	0	1017 ✓	814 ✓	

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
289	1.0000	1.0000	Q = 289 ✓ MCF/D

57.551

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.138 ✓	2,573 ✓	355 ✓	77284 ✓	77639 ✓	279 ✓

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{289}{\left[\frac{371693}{956650} \right]^n} = \frac{0.3685}{0.4477} = 129 \text{ MCF/D}$$

REMARKS:

NEW WELL FIRST DELIVERED 12-12-67.

SUMMARY

Item h **278** ✓ Psia
 P_c **1017** ✓ Psia
 Q **289** ✓ MCF/D
 P_w **279** ✓ Psia
 P_d **814** ✓ Psia
 D **129** ✓ MCF/D

Company **EL PASO NATURAL GAS CO.**
 By **JB Grant**
 Title
 Witnessed By
 Company


