

Initial
Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .85	FORMATION PC	COUNTY San Juan
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87-273

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Sunray "B" No. 4		
UNIT LETTER E	SECTION 1	TOWNSHIP 30	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3470	TUBING O.D. - INCHES No Tubing	TUBING I.D. - INCHES	TOP - TUBING PERD. - FEET
GAS PAY ZONE 3338		WELL PRODUCING THRU 3352		GAS GRAVITY .636	GRAVITY X LENGTH 2123
DATE OF FLOW TEST 9-12-71			DATE SHUT-IN PRESSURE MEASURED 5-13-71		

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	245
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_i = (h-f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P =$ Higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{750}$	(n) Separator or Dehydrator Fr. (DWt) for critical flow only
245	245	937	-	937	750	

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
4224	1.0000	1.0000	Q = 4224 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	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
0.143	549782	78619	60025	138644	372

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 4224 \left[\frac{315469}{739325} \right]^n = 0.4267^n = 0.4849 = 2048 \text{ MCF/D}$$

REMARKS:

New Well 1st Del 8-27-71

SUMMARY

Item h	245	Psia
P _c	937	Psia
Q	4224	MCF/D
P _w	372	Psia
P _d	750	Psia
D	2048	MCF/D

Company **EL PASO NATURAL GAS COMPANY**

By **[Signature]**

Title

Witnessed By

Company

