

Int.
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Gallup	COUNTY Rio Arriba
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COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 27-4 Unit No. 30 (GL)		
UNIT LETTER N	SECTION 32	TOWNSHIP 27	RANGE 4	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 8494	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7461
GAS PAY ZONE FROM 7486 TO 7706		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .678	GRAVITY X LENGTH 5059
DATE OF FLOW TEST FROM 6-4-68 TO 6-11-68			DATE SHUT-IN PRESSURE MEASURED 12-28-67		

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.)
						512
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_f = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = 50\% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
512	512		1326	1326	663	

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
18	1.0000	1.0000	Q = 18 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_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
					512
FRICTION NEGLIGIBLE USE P_t^2					

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	18	$\left[\frac{1318707}{1496132} \right]^n =$	$\left[.8814 \right]^n =$	.9096	$=$	16 MCF/D
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REMARKS:

New well first delivered 5-14-68.

SUMMARY

Item h	512	Psia
P_c	1326	Psia
Q	18	MCF/D
P_w	512	Psia
P_d	663	Psia
D	16	MCF/D

Company **El Paso Natural Gas Company**
By **H. L. Kendrick** H. L. Kendrick
Title **Regional Well Test Engineer**
Witnessed By _____
Company _____

