

Initial
Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POOL NAME South Blanco	POOL SLOPE n = .85	FORMATION PC	COUNTY
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73420

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER San Juan 27-5 Unit No. 76		
UNIT LETTER A	SECTION 7	TOWNSHIP 27	RANGE 5	PURCHASING PIPELINE EPN	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3535	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 3444
GAS PAY ZONE FROM 3428 TO 3455		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .633	GRAVITY X LENGTH 2180
DATE OF FLOW TEST FROM 10-1-70 TO 10-9-70			DATE SHUT-IN PRESSURE MEASURED 4-15-70		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 410
(h) Corrected Meter Pressure (g+e) 410	(i) Avg. Wellhead Press. $P_t = (h+f)$ 410	(j) Shut-in Casing Pressure (DWt) 679	(k) Shut-in Tubing Pressure (DWt) -	(l) P_c = higher value of (i) or (k) 679	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$ 543	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 123	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = 123$ MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.147	$(F_c Q_m)^2 (1000)$ 9170	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 1348	P_t^2 168100	$P_w^2 = P_t^2 + R^2$ 169448	$P_w = \sqrt{P_w^2}$ 412
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 123$	$\left[\frac{166192}{291593} \right]^n = .5699$	$.6200$	$= 76$ MCF/D
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REMARKS:

Ran tubing 8-31-70

SUMMARY

Item h 410 Psia
P_c 679 Psia
Q 123 MCF/D
P_w 412 Psia
P_d 543 Psia
D 76 MCF/D

Company EL PASO NATURAL GAS COMPANY

By *A. E. McDonald*

Title

Witnessed By

Company

