

Deliverability

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

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION MV	COUNTY
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70-133

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER San Juan 32-9 Unit No. 1		
UNIT LETTER K	SECTION 18	TOWNSHIP 31	RANGE 9	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6179	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5981
GAS PAY ZONE FROM 5222 TO 5986		WELL PRODUCING FROM CASING TUBING XX		GAS GRAVITY .671	GRAVITY X LENGTH 4013
DATE OF FLOW TEST FROM 7-31-70 TO 8-8-70			DATE SHUT-IN PRESSURE MEASURED 6-16-70		

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.) 404
(h) Corrected Meter Pressure (g+e) 404	(i) Avg. Wellhead Press. $P_f = (h+f)$ 404	(j) Shut-in Casing Pressure (DWt) 827	(k) Shut-in Tubing Pressure (DWt) 673	(l) P_c = higher value of (j) or (k) 827	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$ 662	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 392	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.00000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 392 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$.253	$(F_c Q_m)^2 (1000)$ 13584	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 3437	P_i^2 163216	$P_w^2 = P_i^2 + R^2$ 166652	$P_w = \sqrt{P_w^2}$ 408
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{F_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	392	$\left[\frac{245685}{51617} \right]^n =$	$.4749^n =$	$.5721$	$= 224$ MCF/D
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REMARKS:

OWWO, 1st del. July 8, 1970

SUMMARY

Item h 404 Psia
P_c 827 Psia
Q 392 MCF/D
P_w 408 Psia
P_d 662 Psia
D 224 MCF/D

Company EL PASO NATURAL GAS COMPANY
By *B. H. Henderson*
Title
Witnessed By
Company

