

Well Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL DELIVERABILITY TEST REPORT FOR 19

Form C122-A  
Revised 1-1-68

POOL NAME South Blanco	POOL SLOPE n = .85	FORMATION PC	COUNTY San Juan
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87-323

COMPANY EL PASO NATURAL GAS COMPANY		WELL NAME AND NUMBER Grambling "A" No. 4			
UNIT LETTER I	SECTION 22	TOWNSHIP 28	RANGE 8	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2448	TUBING O.D. - INCHES No Tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2280 TO 2334		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .662	GRAVITY X LENGTH 1509
DATE OF FLOW TEST FROM 12-9-71 TO 12-17-71			DATE SHUT-IN PRESSURE MEASURED 8-19-71		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 285
(h) Corrected Meter Pressure (g+e) 285	(i) Avg. Wellhead Press. P <sub>1</sub> = (h+f) 285	(j) Shut-in Casing Pressure (DWt) 1012	(k) Shut-in Tubing Pressure (DWt) --	(l) P <sub>c</sub> = higher value of (j) or (k) 1012	(m) Del. Pressure P <sub>d</sub> = 80 % P <sub>c</sub> 810	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 567	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 567 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.104	$(F_c Q_m)^2 (1000)$ 9906	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 1030	$P_t^2$ 81225	$P_w^2 = P_t^2 + R^2$ 82255	$P_w = \sqrt{P_w^2}$ 287
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DELIVERABILITY CALCULATION

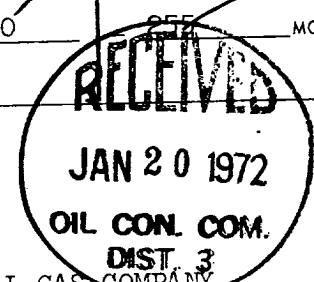
$D = Q \left[ \frac{F_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 567$	$\left( \frac{368044}{941889} \right)^n = \left( 0.3908 \right)^n = 0.4500$	SEE MCF/D
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REMARKS: New Well 1st Del. 11-16-71

SUMMARY

Item h	285	Psia
P <sub>c</sub>	1012	Psia
Q	567	MCF/D
P <sub>w</sub>	287	Psia
P <sub>d</sub>	810	Psia
D	255	MCF/D

Company EL PASO NATURAL GAS COMPANY  
By *H. E. M. Anally*  
Title  
Witnessed By  
Company



OK