

1st del. 5-27-76
test due 8-25-76

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 76

Form C122-A
Revised 1-1-66

POOL NAME So. Blanco P.C.	POOL SLOPE n = 0.85	FORMATION Pictured Cliffs	COUNTY San Juan
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COMPANY R&G Drilling Co.			WELL NAME AND NUMBER Graham No. 30-A		
UNIT LETTER M	SECTION 10	TOWNSHIP 27N	RANGE 8W	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 3.875	SET AT DEPTH - FEET 2345	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 2050
GAS PAY ZONE FROM 2033 TO 2058		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.653	GRAVITY X LENGTH
DATE OF FLOW TEST FROM 6-19-76 TO 6-27-76			DATE SHUT-IN PRESSURE MEASURED 12-19-75		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 252	(b) Flowing Tubing Pressure (DWt) 87	(c) Flowing Meter Pressure (DWt) 87	(d) Flow Chart Static Reading 87	(e) Meter Error (Item c - Item d) -0-	(f) Friction Loss (a - c) or (b - c) -0-	(g) Average Meter Pressure (Integr.) 87
(h) Corrected Meter Pressure (g + e) 87	(i) Avg. Wellhead Press. $P_t = (h + f)$ 87	(j) Shut-in Casing Pressure (DWt) 542	(k) Shut-in Tubing Pressure (DWt) 542	(l) P_c = higher value of (j) or (k) 542	(m) Del. Pressure $P_d = \frac{0.80}{434} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 41	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 41 MCF/D
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FC=24.621

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ 0.092	$(F_c Q_m)^2 (1000)$ 1,019	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 95	P_t^2 7,569	$P_w^2 = P_t^2 + R^2$ 7,664	$P_w = \sqrt{P_w^2}$ 88
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 41	$\left[\frac{105,408}{286,100} \right]^n =$ 0.4279	$(0.3684)^n =$ 0.4279	18 MCF/D
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REMARKS:

SUMMARY

Item h	87	Psia
P_c	542	Psia
Q	41	MCF/D
P_w	88	Psia
P_d	434	Psia
D	18	MCF/D

Company **R&G Drilling Co.**
By **Ewell N. Walsh, P.E., President**
Title **Walsh Engineering & Production Corporation**
Company



OK