

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 70Form C122-A
Revised 1-1-68

POOL NAME Aztec	POOL SLOPE n = .85	FORMATION PC	COUNTY SJ
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87-19

COMPANY El Paso Natural Gas Co			WELL NAME AND NUMBER Murphy No. 2		
UNIT LETTER M	SECTION 24	TOWNSHIP 30	RANGE 11	PURCHASING PIPELINE EFNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2729	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2586 TO 2620		WELL PRODUCING THRU CASING XXX TUBING		GAS GRAVITY .671	GRAVITY X LENGTH 1735
DATE OF FLOW TEST FROM 12-5-70 TO 12-13-70			DATE SHUT-IN PRESSURE MEASURED 9-17-70		

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.)
-	-	-	-	0	0	172
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_i = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P_c =$ higher value of (j) or (k)	(m) Del. Pressure $P_d = 80\% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
172	172	467	-	467	374	

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
483	1.0000	1.0000	Q = 483 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_i^2	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
.119	7188	855	29584	30439	174

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	483	$\left(\frac{73213}{187650} \right)^n$	$(.4168)^n$	.4753	= 230 MCF/D
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REMARKS:

New well, 1st del. 11-16-70.

SUMMARY

Item h	172	Psia
P _c	467	Psia
Q	483	MCF/D
P _w	174	Psia
P _d	374	Psia
D	230	MCF/D

Company EL PASO NATURAL GAS CO

By RE Stuffer

Title

Witnessed By

Company

DEC 28 1970
OIL CON. COM.
DIST. 3

