

Int.
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C123-A
Revised 1-1-68

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Artec	n = .85	Pictured Cliffs	San Juan

87-010

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			McCulley No. 6		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
H	15	28	9	El Paso Natural Gas	
CASING O.D. - INCHES	CASING I.D. - INCHES	SET AT DEPTH - FEET	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TOP - TUBING PERF. FEET
2.875	2.441	2333	No tubing		
GAS PAY ZONE		WELL PRODUCING T-R-U		GAS GRAVITY	GRAVITY X LENGTH
FROM 2220	TO 2241	CASING XX	TUBING	.649	1441
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 7-23-69	TO 7-31-69		5-08-69		

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	221
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_t = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_{sh} - higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{570} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
221	221	713	-	713		

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
434	1.0000	1.0000	Q = 434 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_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
0.099	5804	575	48841	49416	222

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	434	$\left[\frac{183469}{458953} \right]^n =$	$(0.3997)^n =$	0.4586	= 199 MCF/D
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REMARKS:

New well 1st. del. June 13, 1969

SUMMARY

Item h	221	Psia
P_c	713	Psia
Q	434	MCF/D
P_w	222	Psia
P_d	570	Psia
D	199	MCF/D

Company EL PASO NATURAL GAS COMPANY
By H. E. McAnally H. E. McAnally
Title Well Test Engineer
Witnessed By
Company

