

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

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Blanco	n = .75	MV	RA

70-227

COMPANY		WELL NAME AND NUMBER			
El Paso Natural Gas Co.		San Juan 29-7 Unit No. 81			
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
G	18	29	7	EPNG	
CASING O.D. - INCHES	CASING I.D. - INCHES	SET AT DEPTH - FEET	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
4.5000	4.052	5880	2.375	1.995	5780
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 5176 TO 5787		CASING TUBING XX		.668	3861
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 8-11-70 TO 8-19-70			6-23-70		

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	397
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_f = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{100} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
397	397	824	692	824	659	

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 $\leftarrow$
884	1.0000	1.0000	Q = 884 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_f^2	$P_w^2 = P_f^2 + R^2$	$P_w = \sqrt{P_w^2}$
.245	69079	16924	157609	174533	418

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	884	$\left(\frac{244695}{504443} \right)^n$	$(.4850)^n$	$.5812$	$= 514$ MCF/D
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REMARKS:

OWWO 1st del 7-19-70

SUMMARY

Item h	397	Psia
P _c	824	Psia
Q	884	MCF/D
P _w	418	Psia
P _d	659	Psia
D	514	MCF/D

Company EL PASO NATURAL GAS COMPANY

By

Title

Witnessed By

Company

AUG 31 1970

OIL CON. COM.
DIST. 3