

Initial
deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 1970

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION DK	COUNTY RA
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87-176

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 28-6 Unit No. 148		
UNIT LETTER B	SECTION 28	TOWNSHIP 28	RANGE 6	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7755	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 7696
GAS PAY ZONE FROM 7479 TO 7702		WELL PRODUCING THRU CASING TUBING XXX		GAS GRAVITY .652	GRAVITY X LENGTH 5018
DATE OF FLOW TEST FROM 9-23-70 TO 9-30-70			DATE SHUT-IN PRESSURE MEASURED 4-29-70		

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	416
(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_e higher value of (i) or (k)	(m) Del. Pressure $P_d = \frac{50}{1277} \% P_e$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
416	416	2553	2235	2553	1277	

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
838	1.0000	1.0000	Q = 838 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	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
.306	190260	58220	173056	231276	481

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 838 \left[\frac{4887080}{6286533} \right]^n = (.7773)^n = .8279 = 694 \text{ MCF/D}$$

REMARKS:

New Well, 1st del. August 28, 1970.

SUMMARY

Item h 416 Psia
 P_c 2553 Psia
 Q 838 MCF/D
 P_w 481 Psia
 P_d 1277 Psia
 D 694 MCF/D

Company EL PASO NATURAL GAS COMPANY

By D. E. McAnally

Title

Witnessed By

Company

