

Initial
Deliverability Test

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

Form C122-A
Revised 1-1-68

POOL NAME Easin	POOL SLOPE n = .75	FORMATION DK	COUNTY RA
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87-104

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER San Juan 28-6 Unit No. 146		
UNIT LETTER M	SECTION 24	TOWNSHIP 27	RANGE 6	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7729	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7644
GAS PAY ZONE FROM 7452 TO 7634		WELL PRODUCING THRU CASING TUBING XX		G/S GRAVITY .678	GRAVITY X LENGTH 5183
DATE OF FLOW TEST FROM 12-25-69 TO 1-2-70			DATE SHUT-IN PRESSURE MEASURED 11-5-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 449	(b) Flowing Tubing Pressure (DWt) 449	(c) Flowing Meter Pressure (DWt) 2599	(d) Flow Chart Static Reading 2604	(e) Meter Error (Item c - Item d) 2604	(f) Friction Loss (a-c) or (b-c) 1302	(g) Average Meter Pressure (Integr.) 449
(h) Corrected Meter Pressure (g + f) 449	(i) Avg. Wellhead Press. $P_t = (h + f)$ 449	(j) Shut-in Casing Pressure (DWt) 2599	(k) Shut-in Tubing Pressure (DWt) 2604	(l) $P_c =$ higher value of (j) or (k) 2604	(m) Del. Pressure $P_d = 50\% P_c$ 1302	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1010	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 1010 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.314	$(F_c Q_m)^2 (1000)$ 90174	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 28315	P_t^2 20160	$P_w^2 = P_t^2 + R^2$ 229916	$P_w = \sqrt{P_w^2}$ 479
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1010	$\left(\frac{5085612}{6550900} \right)^n =$.7763	$=$.8270	$=$ 835 MCF/D
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REMARKS:

New Well 1st del. 12-2-69

SUMMARY

Item h **449** Psia
P_c **2604** Psia
Q **1010** MCF/D
P_w **479** Psia
P_d **1302** Psia
D **835** MCF/D

Company **El Paso Natural Gas Co.**
By **[Signature]**
Title _____
Witnessed By _____
Company _____

