

By
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 71

Form O-120-a
Revised 1-1-65

WELL NAME	POST. SLOPE	FORMATION	COUNTY
Basin	0.75	OK	RA

87-246

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			San Juan 28-5 Unit No. 84		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	FORECASTING PIPELINE	
G	16	28	5	EPNG	
CASE NO. (D.I.) - INCHES	CASING I.D. - INCHES	SET AT DEPTH - FEET	TUBING I.D. - INCHES	TUBING I.D. - INCHES	TOR. TUBING PRESS. - PSI
4.000	4.052	7970	1.900	1.610	7911
GAS PAY ZONE		WELL PRODUCE TO TUB		CAS GRAVITY	CH. T. X. LENGTH
FROM 7808 TO 7930		CASING		0.600	4747
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 7-9-71 TO 7-27-71			4-23-71		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (Dwr)	(b) Flowing Tubing Pressure (Dwr)	(c) Flowing Meter Pressure (Dwr)	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Dwr)
				0	0	375
(h) Corrected Meter Pressure (g-e)	(i) Avg. Wellhead Press. P_w (h+f)	(j) Shut-in Casing Pressure (Dwr)	(k) Shut-in Tubing Pressure (Dwr)	(l) P_w - higher value of (j) or (k)	(m) Del. Pressure $P_d = P_w - P_c$	(n) Separator Gas hydrate Pressure for critical flow only
375	375 2599	2587	2599	2599 1300	1300	

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
1019	1.0000	1.0000	Q = 1019 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-x})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-x}) (F_c Q_m)^2 (1000)$	P_1^2	$P_w^2 = P_1^2 + R^2$	$P_w = \sqrt{P_1^2 + R^2}$
.292	281325	82347	140625	222772	472

DELIVERABILITY CALCULATION

$D = C \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	$\left(\frac{5064801}{6532029} \right)^n$	$\left(\frac{.7753}{.7753} \right)^n$	$.8262$	842 MCF/D
1019				

REMARKS:

New well, 1st del. June 9, 1971

SUMMARY

Item h 375 Psia
 P_c 2599 Psia
 Q 1019 MCF/D
 P_w 472 Psia
 P_d 1300 Psia
 D 842 MCF/D

Company EL PASO NATURAL GAS COMPANY
 By H. E. McCann
 Title
 Witnessed By
 Company



