Init. Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-65

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

87-007

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas			Florance "C" No. 13		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
C	29	28	8	El Paso Natural Gas Co.	
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	2297	No tubing		
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 2170 TO 2214		CASING XX TUBING		.658	1428
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 7-17-69 TO 7-24-69			4-30-69		

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	177

(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_c = higher value of (j) or (k)	(m) Del. Pressure	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
177	177	856	-	856	P_d = 80 psig / 685 psia	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of Item c / Item d	$\sqrt{\text{Item c / Item d}}$	Corrected Volume
155	1.0000	1.0000	Q = 155 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
Friction	Neg.			Use P_t^2	177

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 155 \left[\left(\frac{263511}{70140}\right)^n = (0.3756)^n = 0.4350\right] = 67 \text{ MCF/D}$$

REMARKS: New well 1st. Del. June 13, 1969

OK

SUMMARY

Item h	177	Psia
P_c	856	Psia
Q	155	MCF/D
P_w	177	Psia
P_d	685	Psia
D	67	MCF/D

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

RECEIVED
AUG 8 1969