Init. Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Blanco	n = .75	MV	Rio Arriba

71-488

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			San Juan 30-6 Unit No. 9		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
G	30	30	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
5.500	5.012	5457	2.375	1.995	5400
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM TO		CASING TUBING XX		.672	3629
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 8-25-69 TO 9-2-69			4-24-68		

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	444 / 456
(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**
456	456	580	580	580	P_d = 80 / 464 (%P_c)	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of Item c / Item d	$\sqrt{\text{Item c / Item d}}$	Corrected Volume
368	1.0000	1.0000	Q = 368 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.232	11972	2778	207936	210714	459

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 368 \left[\left(\frac{121104}{125636}\right)^n = (0.9635)^n = 0.9725\right] = 358 \text{ MCF/D}$$

REMARKS: Install 2" motor valve, turned back on production 8-11-69.

OK

SUMMARY

Item h	456	Psia
P_c	580	Psia
Q	368	MCF/D
P_w	459	Psia
P_d	464	Psia
D	358	MCF/D

Company El Paso Natural Gas Company
By
Title
Witnessed By
Company

RECEIVED
SEP 19 1969
OIL CON. COM.
DIST. 3