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
Fulcher-Kutz	n = .85	Pictured Cliffs	San Juan

87-006

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			Johnson Y No. 1		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
B	21	27	10	Southern Union Gas Company	
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	1981	No tubing		
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 1846 TO 1892		CASING XX TUBING		.651	1202
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 5-10-69 TO 5-18-69			2-02-69		

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	212
(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**
212	212	469	---	469	P_d = 80 / 375 %P_c	

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
190	1.0000	1.0000	Q = 190 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	212

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 190 \left[\left(\frac{79336}{175017}\right)^n = (0.4533)^n = 0.5105\right] = 97 \text{ MCF/D}$$

REMARKS: New well - 1st del. June 13, 1969

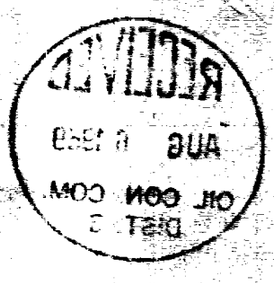
OK

SUMMARY

Item h	212	Psia
P_c	469	Psia
Q	190	MCF/D
P_w	212	Psia
P_d	375	Psia
D	97	MCF/D

Company EL PASO NATURAL GAS COMPANY
By R. E. Stauffer
Title Well Test Engineer
Witnessed By
Company

RECEIVED
AUG 6 1969
OIL CON. COM.
DIST. 3


RECEIVED
AUG
OIL CON. COM.
DIST. 3