Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-68

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Blanco	n = .85	PC	SJ

87-256

COMPANY	WELL NAME AND NUMBER			
El Paso Natural Gas Company	Riddle B No. 6			
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE
E	23	30	10	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
2.875	2.441	3073	no tubing	
GAS PAY ZONE		WELL PRODUCING THRU	GAS GRAVITY	GRAVITY X LENGTH
FROM 2920 TO 2960		CASING XXX TUBING	.659	1924
DATE OF FLOW TEST		DATE SHUT-IN PRESSURE MEASURED		
FROM 7-31-71 TO	8-8-71	5-28-71		

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	154
(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 P_d= 80 %P_c**	**(n) Separator or Dehydrator Pr. (DWt) for critical flow only**
154	154	956	--	956	765	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of Item c / Item d	$\sqrt{\text{Item c / Item d}}$	Corrected Volume
359	1.0000	1.0000	Q = 359 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.131	3971	520	23716	24236	156

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 359 \left[\left(\frac{328711}{889700}\right)^n = \left(.3694\right)^n = .4289\right] = 154 \text{ MCF/D}$$

REMARKS:

First delivered - 7-1-71

SUMMARY OIC

Item h	154	Psia
P_c	956	Psia
Q	359	MCF/D
P_w	156	Psia
P_d	765	Psia
D	154	MCF/D

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

RECEIVED
AUG 18 1971
OIL CON. COM.
DIST. 3