Init. 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 Ext	San Juan

87-274

COMPANY		WELL NAME AND NUMBER			
El Paso Natural Gas Company		Sunray "B" No. 6			
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
G	1	30	10	El Paso Natural Gas Company	
CASING O.D. - INCHES	CASING I.D. - INCHES	SET AT DEPTH - FEET	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TOP - TUBING DEPTH - FEET
2.875	2.441	3481	No Tubing		
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 3373 TO 3394		CASING xx TUBING		.636	2145
DATE OF FLOW TEST		DATE SHUT-IN PRESSURE MEASURED			
FROM 9-12-71 TO 9-20-71		5-13-71			

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 (c-c) or (b-c)	(g) Average Meter Pressure (Integr.)
-	-	-	-	0	0	242
(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**
242	242	896	-	896	717	

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
1155	1.0000	1.0000	Q = 1155 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
0.144	41106	5919	58564	64483	254

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 1155 \left[\left(\frac{288727}{738333}\right)^n = (0.3911)^n = 0.4505\right] = 520 \text{ MCF/D}$$

REMARKS:

New Well 1st Del 8-27-71

SUMMARY OK

Item h	242	Psia
P_c	896	Psia
Q	1155	MCF/D
P_w	254	Psia
P_d	717	Psia
D	520	MCF/D

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

RECEIVED
OCT 7
OIL CON. COM.
DIST. 3