

in Deliverable

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-68

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

87-263

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Company			Sunray "A" No. 4		
UNIT LETTER	SECTION	STANDARD	RANGE	PURCHASING PIPELINE	
0	15	30	10	EPNG	
CASING O.D. - INCHES	CASING I.D. - INCHES	SET AT DEPTH - FEET	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TOP - TENSING PERCENT
2.875	2.441	3173	no tubing		
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 3030 TO 3070		CASING XXXX TUBING		.653	1979
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 8-8-71 TO 8-16-71			6-28-71		

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.)
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(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_1 = (h+f)$	(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
149	149	819	---	819	655	

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
725	1.0000	1.0000	Q = 725 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_1^2	$P_w^2 = P_1^2 + R^2$	$P_w = \sqrt{P_w^2}$
.134	16196	2170	22201	24371	156

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	725	$\left[\frac{241736}{646390} \right]^n$	$= (.3740)^n$	$= .4335$	$= 314$ MCF/D
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REMARKS:

New well, 1st del. 7-21-71

SUMMARY

Item h 149 Psia
P_c 819 Psia
Q 725 MCF/D
P_w 156 Psia
P_d 655 Psia
D 314 MCF/D

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

8 1971