

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPLE TEST AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-127
Revised 9-7-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-19-80		JUL 30 1980	
Company CITIES SERVICE COMPANY						EL PASO NATURAL GAS COMPANY		O. C. D.	
Well Curtain 124						MORROW		Unit ARTESIA, OFFICE	
Completion Date 7-16-80		Total Depth 11,375		Test Back TH 11,292		Elevation		Farm or Lease Name STATE "CW"	
Case Size 5 1/2	Wt. 17.00	d 4.892	Set At 11,375	Perforations: From 11,111 To 11,119		Well No. 1			
Tbg. Size 2 7/8	Wt. 6.40	d 2.875	Set At 11,004	Perforations: From OPEN To END		Unit F	Sec. 19	Twp. 20S	Rgt. 28E
Type Well - Single - Bradenhead - G.O. or G.O. Multiple SINGLE						Packer Set At 11,004		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 185 @ 11,115		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 11,115	H 11,115	Gg .618	% CO ₂ 1.044	% N ₂ .404	% H ₂ S	Prover	Meter Run 4"	Taps FLANGE	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							3450				
1.	4 X 2.00			465	2.25	91	3230	92			1 HR.
2.	4 X 2.00			470	9.0	81	3125	92			1 HR.
3.	4 X 2.00			475	16.8	76	2922	95			1 HR.
4.	4 X 2.00			480	26.0	72	2580	98			1 HR.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	19.81	32.80	478.2	.9715	1.272	1.035	831
2	19.81	65.95	483.2	.9804	1.272	1.038	1691
3	19.81	90.56	488.2	.9850	1.272	1.040	2338
4	19.81	113.24	493.2	.9887	1.272	1.041	2937
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	560.129 Mcf/bbl
1	.71	551	1.53	.934	A.P.I. Gravity of Liquid Hydrocarbons	50.3 @ 60°
2	.72	541	1.50	.928	Specific Gravity Separator Gas	.618
3	.72	536	1.48	.924	Specific Gravity Flowing Fluid	X X X X X
4	.73	532	1.47	.922	Critical Pressure	675 P.S.I.A.
5					Critical Temperature	361 R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.273$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.758$
1	* 3209.3		10299.6	1694.2		
2	* 3107.0		9653.4	2340.4		
3	* 2909.6		8465.8	3528.0		
4	* 2591.6		6716.4	5277.4		
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