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NEW MEXICO CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

O. C. C. Form C-122
ARTESIA, OFFICE Revised 9-1-65

Type Test		☒ Initial		Date		5-30-78	
Company				CITIES SERVICE COMPANY			
Pool				TRANSWESTERN, EL PASO, LLANO GAS			
Location				SOUTH CARLSBAD STRAWN			
Completion Date		11,820'		10,355'		Form or Lease Name	
5-27-78						SPENCER "A"	
Tub. Size	Wt.	d	Set At	Perforations:		Well No.	
7"	20#	6.456"	10,609'	From 10,323' To 10,331'		1	
Tub. Size	Wt.	d	Set At	Perforations:		Unit	
2 3/8"	4.7#	1.995"	10,261'	From		O 30 22S 27E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At		County	
SINGLE				10,261'		EDDY	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		State	
TUBING		177 * 10,327'		60		NEW MEXICO	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run
10,327	10,327	0.663	.46	1.71	-0-		4"
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
1.	4"	X	.875"	468	15	87	72 HR.
2.	4"	X	.875"	470	30	88	1 HR.
3.	4"	X	.875"	470	52	88	1 HR.
4.	4"	X	.875"	470	82	85	1 HR.
5.							1 HR.
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, Mc/d
1	2.661	84.96	481.2	.9750	1.228	1.043	282
2	2.661	120.40	483.2	.9741	1.228	1.043	400
3	2.661	158.51	483.2	.9741	1.228	1.043	526
4	2.661	199.05	483.2	.9768	1.228	1.044	663
5							
NO.	P _t	Temp. °R	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
1	.72	547	1.45 .919	A.P.L. Gravity of Liquid Hydrocarbons _____ 64 @ 60 _____ Deg.			
2	.72	548	1.45 .919	Specific Gravity Separator Gas _____ .663 _____ XXXXXXXXXX			
3	.72	548	1.45 .919	Specific Gravity Flowing Fluid _____ XXXXX _____			
4	.72	545	1.44 .917	Critical Pressure _____ 670 _____ P.S.I.A. _____ P.S.I.A.			
5				Critical Temperature _____ 378 _____ R _____ R			
$P_F = 3313.2$ $P_F^2 = 10,977.3$							
NO.	P_F^2	P_F	$P_F^2 - P_G^2$	(1) $\frac{P_F^2}{P_F^2 - P_G^2} = 2.594$ (2) $\left[\frac{P_F^2}{P_F^2 - P_G^2} \right]^n = 1.678$			
1	3179.2	10107.3	870.0				
2	3036.2	9218.5	1758.8				
3	2876.2	8272.5	2704.8				
4	2597.2	6745.4	4231.9				
5							
Absolute open flow				1,112		Mold @ 15.025	
Angle of Slope				61.5		Slope, n .543	
Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA GAUGE AT 10,327 FEET.							
NO WAY TO MEASURE FLUID DURING TEST, SEPARATOR MAL-FUNCTION.							
Approved By Commission:		Conducted By:		Calculated By:		Checked By:	
R.E.R.		J.A.B.		J.W.W.			