

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

C/SF
FV C-122F
Form C-122
Revised 9-2-55

RECEIVED

☒ Initial ☐ Added ☐ Special						Test Date 8-20-80		SEP 3 1980	
Company CITIES SERVICE COMPANY ✓						To AIR		O. C. D.	
Location BURTON FLAT <i>Monterey</i> <i>71-2-20</i>						Elevation 3276 KB		Field or Lease Name GOVERNMENT "AG"	
Test Date 8-20-80		Well Depth 11,325		Perforations: From 11,083 To 11,090		Well No. 1			
Tubing Size 5 1/2		Weight 17.00		Set At 11,325		Perforations: From OPEN To END		Unit Sec. Twp. Rge. J 17 20S 28E	
Tubing Size 2 7/8		Weight 6.50		Set At 11,074		Packer Set At 11,060		County EDDY	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Baro. Press. - P _a 13.2		State NEW MEXICO	
Producing Thru TUBING		Reservoir Temp. °F 184° 1,087		Mean Annual Temp. °F 60°		Prover		Meter Run 4"	
L 11,087		H 11,087		Gg .605		% CO ₂ .939		% H ₂ S .315	
								FLANGE	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. In. Wg	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1	4 X 1.250			330	8	80	2363	92			1 HOUR
2	4 X 1.250			470	24	71	1927	92			1 HOUR
3	4 X 1.250			490	42	78	1466	92			1 HOUR
4	4 X 1.250			490	48	78	1130	92			1 HOUR

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	7.469	52.40	343.3	.9813	1.286	1.027	507
2	7.469	107.69	483.2	.9896	1.286	1.040	1065
3	7.469	145.38	503.2	.9831	1.286	1.040	1428
4	7.469	155.41	503.2	.9831	1.286	1.040	1526

NO.	F _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 188,583 Mcf/m
1	.51	540	1.51	.949	A.P.L. Gravity of Liquid Hydrocarbons 54.8 @ 60°
2	.72	531	1.48	.924	Specific Gravity Separator Gas .605
3	.75	538	1.50	.925	Specific Gravity Flowing Fluid X X X X X
4	.75	538	1.50	.925	Critical Pressure 671 P.S.I.A.
5					Critical Temperature 358 °R

NO.	P ₁	P ₂	P _w	P _w ²	P _c ² - P _w ²	$\frac{P_c^2}{P_c^2 - P_w^2} = 1.244$	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.162$
1	*	2440.3	5955.1	1696.8			
2	*	2015.1	4060.6	3591.3			
3	*	1558.9	2430.2	5221.7			
4	*	1224.7	1499.9	6152.0			

1.773		Mcf @ 15,000	Angle of Slope θ 55.5	Slope, n .687
1 BBL CONDENSATE				
*CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES				
Designed By: J. J. J.	Conducted By: MB	Calculated By: RR	Checked By: JWW	