

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

Form C-122
Revised 9-1-65

C/SF C-122

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4-5-82		APR 28 1982	
Company CITIES SERVICE COMPANY /				Connection TO AIR			
Pool BURTON FLAT <i>Morrow</i>				Permit MORROW		Unit O. C. D. ARTESIA, OFFICE	
Completion Date 4-8-82		Total Depth 11,205'		Plug Back TD 11,165		Elevation 3284.8	
Csg. Size 5 1/2"	Wt. 17#	d 4.892	Set At 11,205	Perforations: From 10,870 To 11,165		Well No. 1	
Tbg. Size 2 7/8"	Wt. 6.5#	d 2.441	Set At 10,783	Perforations: From OPENENDED		Unit Sec. Twp. Rge. N 8 20S 28E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 10,775		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 184 @ 11,018		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 11.018		H 11.018		Gg .6609	% CO ₂ 1.043	% N ₂ 1.271	% H ₂ S Prover
						Meter Run 4.026	
						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							3304	74°	P.K.R.	CHOKE	95 HRS.
1.	4	x	1.000	510	5"	94°	3050	74		5/64	1 Hr.
2.	4	x	1.000	510	10"	90	2750	74		6/64	1 Hr.
3.	4	x	1.000	510	20"	90	2450	74		8/64	1 Hr.
4.	4	x	1.000	510	29"	90	2050	74		10/64	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	4.753	51.15	523.2	.9688	1.230	1.044	303
2	4.753	72.33	523.2	.9723	1.230	1.045	429
3	4.753	102.29	523.2	.9723	1.230	1.045	608
4	4.753	123.18	523.2	.9723	1.230	1.045	732
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.777	554	1.48	.918	86.33	
2	.777	550	1.47	.916	A.P.I. Gravity of Liquid Hydrocarbons	58.4 @ 60°
3	.777	550	1.47	.916	Specific Gravity Separator Gas	.6609
4	.777	550	1.47	.916	Specific Gravity Flowing Fluid	X X X X X
5					Critical Pressure	673 P.S.I.A.
					Critical Temperature	374 R

P _c * 3341	P _c ² 11,162	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.69584$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.41353$
NO.	P _t ²	P _w	P _w ²
1		3079	9480
2		2851	8128
3		2532	6411
4		2140	4580
5			

Absolute Open Flow		1035	Mcf/d @ 15.025	Angle of Slope	63° 04'	Slope, n	.65526
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Remarks:		* Calculated from known Bottom Hole Pressures	
		Made 1 barrel of condensate during test.	

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	T.B.	M.K.	M.K.