

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-123
Revised 9-1-89

RECEIVED

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 11-26-82		DEC 20 1982	
Company: CLEMENTS ENERGY				Connection: Gas Company of New Mexico				O. C. D.	
Pool: West Buffalo Valley-Penn Gas				Formation: MORROW				ARTESIA OFFICE	
Completion Date: 6-15-82		Total Depth: 7117		Plug Hole: 7109		Elevation: 3432		Farm or Lease Name: KING 35	
Tub. Size: 4.500		Wt.: 11.6		d: 4.090		Set At: 7117		Perforations: From 6925 To 7008	
Tub. Size: 2.375		Wt.: 4.7		d: 1.995		Set At: 4979		Perforations: From OPEN To ENDED	
Type Well - Single - Rodenthead - O.O. or O.O. Multiple: SINGLE						Factor Set At: 4978		County: CHAVES	
Producing Time: TUBING		Reservoir Temp. °F: 132 @ 6966		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 13.2		State: NEW MEXICO	
L: 6966		H: 6966		Q _g : 0.687		% CO ₂ : 0.29		% N ₂ : 1.39	
						% H ₂ S: 0		Prover: 2.0	
								Meter Run: 0	
								Tape:	

FLOW DATA						TUBING DATA		B.H.P. 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.	
51							439	60	533	
1.	2.00	X	0.219	200	0	32	385	60	495	12.5/64
2.	2.00	X	0.219	300	0	32	366	60	480	16/64
3.	2.00	X	0.250	282	0	34	339	60	456	20/64
4.	2.00	X	0.250	330	0	36	331	60	444	48/64
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h/P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compres. Factor, F _{sp}	Rate of Flow Q, McM
1	0.84	0	213.2	1.0281	1.2066	1.0280	228.
2	0.84	0	313.2	1.0281	1.2066	1.0419	339.
3	1.08	0	295.2	1.0260	1.2066	1.0389	412.
4	1.08	0	343.2	1.0239	1.2066	1.0450	481.
5							

NO.	P ₁	Temp. °R	Q	Z	Gas Liquid Hydrocarbon Ratio	CO ₂	MAF/MBL
1	0.32	492	1.29	0.946			
2	0.47	492	1.29	0.921			
3	0.44	494	1.30	0.927			
4	0.51	496	1.30	0.916			
5							

NO.	P ₁	P ₂	P ₃	P ₄	P ₅	P ₆	P ₇	P ₈	P ₉	P ₁₀
1	457.8	210.								
2										
3										
4										
5										

NO.	P ₁	P ₂	P ₃	P ₄	P ₅	P ₆	P ₇	P ₈	P ₉	P ₁₀
1		426.	182	28						
2		414.	171	38						
3		394.	155	54						
4		384.	148	62						
5										

Absolute Open Flow		Angle of Slope		Slope, n	
1484.		47.2		0.926	

Remarks:	
BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS.	

Approved By Commission	Conducted By	Calculated By	Checked By
	DON BENNETT	BENNETT-CATHEY	