

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

45F
File

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6/5/89		O. C. D. ARTESIA, OFFICE	
Company BILL FENN ✓				Connection AIR			
Pool Ficken Pass 4/1/89				Formation ciscoluppu Penn.		Unit	
Completion Date 6/3/89		Total Depth 9564		Plug Back TD 9087		Elevation 3804	
Csg. Size 4.500		Wt. 11.6		Set At 4.000		9564	
Thq. Size 2.375		Wt. 4.7		Set At 1.995		7268	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple DUAL				Packer Set At 7268		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 152 @ 7458		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 7458		H 7458		G _g .624		% CO ₂ .69	
				% N ₂ .83		% H ₂ S .00	
				Prover .0		Meter Run 4.0	
						Taps FLANGE	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1560	78			72
1.	4.03 X .750			210	6	79	1510	68	PKR	0	1
2.	4.03 X .750			210	18	80	1430	63	PKR	0	1
3.	4.03 X .750			210	40	80	1140	60	PKR	0	1
4.	4.03 X .750			210	90	80	980	60	PKR	0	1
5.											

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	2.66	36.60	223.2	.9822	1.2659	1.0178	123
2	2.66	63.38	223.2	.0913	1.2659	1.0177	213
3	2.66	94.49	223.2	.9813	1.2659	1.0177	318
4	2.66	141.73	223.2	.9813	1.2659	1.0177	477
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.33	539	1.49	.965	.0	
2	.33	540	1.49	.966	.0	
3	.33	540	1.49	.966	.624	XXXXXX
4	.33	540	1.49	.966	.624	XXXXXX
5						

NO.	P _i ²	P _w	P _w ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.6819$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.3482$
1	2320	1520	2311	137		
2	2083	1443	2082	365		
3	1330	1155	1334	1114		
4	986	966	992	1455		
5						

Absolute Open Flow 643 Mcfd @ 15.025		Angle of Slope α 60.1		Slope, n .575	
Remarks: CHOKE SIZE: 1ST RATE 3/64 2ND RATE 5/64 3RD RATE 6/64 4TH RATE 8/64					
Approved By Division		Conducted By: BENNETT-CATHEY		Calculated By: MATT LEE	
Checked By:					