

RECEIVED

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 3/21/89		MAR 24 '89	
Company R. E. HIBBERT				Connection AIR		O. C. D.	
Pool Williston Strawn				Formation STRAWN		Unit ARTESIA, OFFICE	
Completion Date 2/4/89		Total Depth 10068		Plug Back TD 10058		Elevation 0	
Ceq. Size 4.500		Wt. 11.6		Set At 10068		Perforations: From 10030 To 10040	
Thq. Size 2.375		Wt. 4.7		Set At 9986		Perforations: From 0 To 0	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE-GAS				Packer Set At 9986		Farm or Lease Name RIDGE STATE	
Producing Thru TUBING		Reservoir Temp. °F 175 @ 10035		Mean Annual Temp. °F 60		Well No. 1	
L 10035		H 10035		Cg .632		County EDDY	
% CO ₂ .21		% N ₂ .01		% H ₂ S .00		State NEW MEXICO	
Prover .0		Meter Run 3.1		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							2840	61			864.0
1.	3.07 X .500			220	9.0	65	2770	61		PKR	1.0
2.	3.07 X .500			200	19.0	64	2690	61		PKR	1.0
3.	3.07 X .500			200	30.0	62	2580	60		PKR	1.0
4.	3.07 X .500			220	65.0	65	1998	59		PKR	1.0
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, F _{pv}	Rate of Flow Q, Mcfd
1	1.18	45.81	233.2	.9952	1.2579	1.0216	69.
2	1.18	63.65	213.2	.9962	1.2579	1.0198	96.
3	1.18	79.97	213.2	.9981	1.2579	1.0201	121.
4	1.18	123.12	233.2	.9952	1.2579	1.0216	186.
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.35	525.	1.43	.958	.0	
2	.32	524.	1.42	.962	.0	
3	.32	522.	1.42	.961	.632	XXXXXX
4	.35	525.	1.43	.958	.632	XXXXXX
5						

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n =$
1	7746	2784	7750	391	1.9937	±.4120
2	7307	2704	7311	830		
3	6725	2595	6734	1406		
4	4045	2014	4057	4083		
5						

Absolute Open Flow 263 Mcfd @ 15.025		Angle of Slope 63.4		Slope, n .500	
Remarks: CHOKE SIZE: 1ST RATE - 1/64 2ND RATE - 1.5/64 3RD RATE - 2.5/64 4TH RATE - 3.5/64					
Approved By Division		Conducted By: BENNETT & CATHEY		Calculated By: MATT LEE	
				Checked By:	