

RECEIVED

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special						Test Date 12-24-87		JAN 26 '88	
Company PRIMARY FUELS ✓				Connection TO AIR				O. C. D.	
Pool Village (Baldwin)				Formation H. (Baldwin)				Unit ARTESIA, OFFICE	
Completion Date 12-22-87		Total Depth 11,370		Plug Back TD 11340		Elevation 2365 ft		Farm or Lease Name P. FEDERAL	
Coq. Size 5.500	Wt. 17/20	d 4.892	Set At 11385	Perforations: From 10869 To 10876		Well No. 1			
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 10814	Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. K 19 22 26			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 10746		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 178 @ 10872.5		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 10872.5	H 10872.5	Gg 0.589	% CO ₂ 0.620	% N ₂ 0.580	% H ₂ S 0	Prover 0	Meter Run 4.026	Taps FLNG.	

FLOW DATA						TUBING DATA		BHP 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							2501	60	3188	178	72 HRS.
1.	4.026	1.750	255	5.0	63	2400	61	3171	178	4 HRS.	
2.	4.026	1.750	260	8.0	59	2300	61	3033	178	8 HRS.	
3.	4.026	1.750	270	14.0	62	2085	62	2696	178	16 HRS.	
4.	4.026	1.750	270	22.0	63	1735	61	2250	178	20 HRS.	
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.93	36.62	268.2	0.9971	1.3030	1.0220	726
2	14.93	46.75	273.2	1.0010	1.3030	1.0232	931
3	14.93	62.97	283.2	0.9981	1.3030	1.0235	1251
4	14.93	78.93	283.2	0.9971	1.3030	1.0233	1566
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.40	523	1.48	0.957	377.648	
2	0.40	519	1.47	0.955	57.0	
3	0.42	522	1.48	0.955		
4	0.42	523	1.48	0.955		
5						

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1		2471	6104	66	2.0035	1.4179
2		2361	5574	595		
3		2098	4401	1768		
4		1758	3090	3079		
5						

Absolute Open Flow 2221 Mcfd @ 15.025 Angle of Slope 63.3 Slope, n 0.503
 Remarks: BOTTOM HOLE PRESSURES WITH AMARADA PRESSURE BOMBS
 Approved By Division Conducted By: Calculated By: Checked By: