

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1-6-81			
Company El Paso Natural Gas Company				Connection Northwest Pipeline				
Pool Blanco				Formation Mesa Verde				Unit
Completion Date 12-15-80		Total Depth 5846'		Plug Back TD 5828		Elevation 6504 GR		Farm or Lease Name San Juan 27-5 Unit
Csq. Size 7.00"	Wt. 20.0#	d 6.456	Set At 3606'	Perforations: From 4872 To 5794'			Well No. #35A	
Thq. Size 2.375	Wt. 4.7#	d 1.995	Set At 5786'	Perforations: From To			Unit F	Sec. Twp. Rge. 33 27 5
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual					Packer Set At 3426'		County Rio Arriba	
Producing Thru		Reservoir Temp. °F p		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico
L	H	G _g 0.67	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Taps Flg.

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							780				22 Days
1.	4" X 2.500			20	4.6	62	90				3 Hours
2.											
3.											
4.											
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	103.21	8.229	32	0.9981	1.222	1.000	1036
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

$P_c = 792$ $P_c^2 = 627,264$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0571$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0425$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1	10,404	184	33856	593408				
2								
3								
4								
5								

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1080$				
Absolute Open Flow		1080		Mcf/d @ 15.025
Angle of Slope		θ		Slope, n 0.75

Remarks:		* 4 1/2" Liner - 3414 to 5846'	
		Liquids Produced - 8.2 Bbls Oil, 30.4 Bbls. Water	
		Gas Vented - 126 MCF	

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Knox Hedgecoke	Bill Clark	