

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☐ Initial ☐ Annual ☒ Special					Test Date 1-12-84				
Company Amoco Production Company				Connection El Paso Natural Gas Company					
Pool Ute Dome				Formation Dakota				Unit	
Completion Date 12-15-83		Total Depth 3188		Plug Back TD 3099		Elevation 6323 GL		Farm or Lease Name Ute Mtn. Tribal "D"	
Csg. Size 5.500	Wt. 14	d 5.012	Set At 3188	Perforations: From 3000 To 3119		Well No. 7			
Thg. Size 2.375	Wt. 4.7	d 1.995	Set At 3093	Perforations: From open To ended		Unit K	Sec. 10	Twp. 31	Rge. 14
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Single					Packer Set At None		County San Juan		
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Cg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	

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.	
SI	8 Days						162		624	
1.	2.375		.750				115		334	3 hrs
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 _{sp}	Rate of Flow Q, Mcfd
1	12.365		127	1.000	.9258	1.015	1476
2.							
3.							
4.							
5.							

NO.	F	Temp. °R JAN 25 1984	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
					Specific Gravity Separator Gas _____ X X X X X X X X			
					Specific Gravity Flowing Fluid _____ X X X X X			
					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.			
				Critical Temperature _____ R _____ R				

P _c 636	P _c ² 404496		
NO.	P _t ²	P _w	P _w ²
1		346	119716
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.4204 \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3011$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1920$$

Absolute Open Flow 1920 Mcfd @ 15.025		Angle of Slope θ _____	Slope, n .75
---------------------------------------	--	------------------------	--------------

Remarks: Flowed heavy oil medium water - no flare.
Re-frac well.

Approved By Division	Conducted By: J. J. Barnett	Calculated By: J. J. Barnett	Checked By:
----------------------	--------------------------------	---------------------------------	-----------------