

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special					Test Date 4-12-84		APR 26 1984 OIL CON. DIV. DIST. 3		
Company Amoco Production Company				Connection El Paso Natural Gas Co.					
Pool Flora Vista				Formation Gallup					
Completion Date 3-19-84		Total Depth 6998		Plug Back TD 6927		Elevation 5939 GL		Form or Lease Name L. C. Kelly	
Coq. Size 5.500	Wt. 15.5	d 4950	Set At 6998	Perforations From 5865 To 6136			Well No. 4E		
Thp. Size 2.375	Wt. 4.7	d 1.995	Set At 6730	Perforations From sliding To sleeve			Unit Sec. Twp. Rge. D 3 30 12		
Type Well - Single - Bordenhead - G.C. or G.O. Multiple Commingle					Packer Set At 6738		County San Juan		
Producing Thru casing		Reservoir Temp. °F P		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.		Temp. °F
SI	7 days						X		835		
1.	2.375		.750				X		16		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 _{pv}	Rate of Flow O, Mcfd
1	12.365		28	1.000	9258	1.004	322
2.							
3.							
4.							
5.							

NO.	R _g	Temp. °R	T _c	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/nbl.			
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX			
3.					Specific Gravity Flowing Fluid _____ XXXXX			
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.			
5.					Critical Temperature _____ R _____ R			

NO.	P _c ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	847	717409		1.0015	1.0011
2					
3					
4					
5					

NO.	P _c ²	P _w ²	P _c ² - P _w ²	AOR = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	33	1089	716316	322
2				
3				
4				
5				

Absolute Open Flow _____ 322 _____ Mcfd @ 15.025		Angle of Slope _____		Slope, n _____ .75	
Remarks: would not flow thru tubing - tubing zero flared					

Approved By Division	Conducted By I. Barnett	Calculated By I. Barnett	Checked By
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