

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 1-31-84	
Company Amoco Production Company		Connection El Paso Natural Gas Company	
Pool Basin		Formation Dakota	
Completion Date 1-13-84		Total Depth 7240	
Plug Back TD 7183		Elevation 6264 GL	
Form or Lease Name State Gas Com "BP"		Well No. 1E	
Csg. Size 4.500		Wt. 10.5	
d 4.052		Set At 7240	
Perforations: From 7044 To 7118		Unit J	
Thq. Size 2.375		Wt. 4.7	
d 1.995		Set At 7118	
Perforations: From open To ended		Sec. 32	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Single		Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F #	
Mean Annual Temp. °F		Baro. Press. - P _a	
L		H	
Cg		% CO ₂	
% N ₂		% H ₂ S	
Prover		Meter Run	
Taps			
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
SI	11 Days		
1.	2.375		.750
2.			
3.			
4.			
5.			
TUBING DATA			
	Press. p.s.i.g.	Temp. °F	
	1384		
	140		
CASING DATA			
	Press. p.s.i.g.	Temp. °F	
	1525		
	664		
Duration of Flow			
			3 hrs
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	12.365		152
2.			
3.			
4.			
5.			
NO.	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}
1	1.000	.9258	1.017
2.			
3.			
4.			
5.			
NO.	R _t	Temp. °R	T _t
1.			
2.			
3.			
4.			
5.			
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 1537 P _c ² 2362369			
NO.	P _t ²	P _w	P _w ²
1		676	456976
2.			
3.			
4.			
5.			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2398$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1750$			
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2080$			
Absolute Open Flow 2080 Mcfd @ 15.025			
Angle of Slope θ _____			
Slope, n .75			
Remarks: Flared medium water light oil.			
7.000 inch set at 0 - 3006 ft; 4.500 inch set at 2835 to 7240 ft.			
Approved By Division		Conducted By: J. J. Barnett	Calculated By: J. J. Barnett
		Checked By: [Signature]	