

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 04 22 80			
Company AMOCO PRODUCTION CO.				Connection EL PASO NATURAL GAS CO.					
Pool BASIN				Formation DAKOTA				Unit	
Completion Date 04 08 80		Total Depth 6314		Plug Back TD 6278		Elevation 5453 GL		Farm or Lease Name Bergin Gas Com	
Coq. Size 4.500	Wt. 11.6	d 4.000	Set At 6314	Perforations From 4078 To 6216		Well No. 1E			
Tiq. Size 2.375	Wt. 4.7	d 1.995	Set At 6223	Perforations From open To ended		Unit Sec. Twp. Rge. F 21 29N 11W			
Type Well - Single - Bradenhead - 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	G _g	% 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	
1	2.375	.750					1120	58	1125	387	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 Q, Mcfd
1	12.365		70	1.000	.9258	1.000	808
2.							
3.							
4.							
5.							

NO.	P _r	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 _____ XXXXXXXXXX	
3.					Specific Gravity Flowing Fluid _____ XXXXX	
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	

P _c 1137 P _c ² 1292769				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		399	159201	1133568
2.				
3.				
4.				
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.1404$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 892$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1036$$

Absolute Open Flow 892 Mcfd @ 15.025	Angle of Slope 3 Slope, n .75
Remarks	
Approved by Division	Conducted By JJB
Calculated By J J BARNETT	Checked By B E JACKRELL