

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 04 21 80			
Company AMOCO PRODUCTION CO.				Connection ELPASO NATURAL GAS CO.					
Pool BASTIN				Formation DAKOTA				Unit	
Completion Date 04 01 80		Total Depth 7170		Plug Back TD 7170		Elevation 5950 GL		Farm or Lease Name A. L. ELLIOT C	
Coq. Size 4.500	Wt. 11.6	d 4.000	Set At 7170	Perforation 8894		7122		Well No. 4	
Fig. Size 2.375	Wt. 4.7	d 1.995	Set At 7133	Perforation 7000		7000		Unit Sec. Twp. Rge. A 15 29N 9W	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple SINGLE						Packer Set At NONE		County San Juan	
Producing Thru TUBING		Reservoir Temp. °F #		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	
SI	7 days						1967		1967		3 hrs
1.	2.375	.750					54		370		
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	12.365		66	1.000	.9258	1.007	763
2.							
3.							
4.							
5.							

NO.	P _i	Temp. °R	T _g	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 1979 P _c ² 3916441				
NO.	P _i ²	P _w	P _i ²	P _i ² - P _w ²
1		382	145924	3770517
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_i^2 - P_w^2} = 1.0387$

AOF = Q $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 763$

(2) $\left[\frac{P_i^2 - P_w^2}{P_c^2} \right]^n = 1.0289$

Absolute Open Flow	783	Mcf @ 15.025	Angle of Slope @	Slope, n	.75
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MAY 13 1980
OIL CON. COM.
DIST. 3

Approved By Division	Conducted By JJJ	Calculated By J J BARNETT	Checked By B E PACKRELL
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