

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 8/22/84	
Company Amoco Production Co.			Connection NWPL		
Pool Basin			Formation Dakota		Unit
Completion Date 8/3/84		Total Depth 8100	Plug Back TD 8055	Elevation 6303GL	Farm or Lease Name Rosa Unit
Csg. Size 4.500	Wt. 11.6	d 4.000	Set At 8100	Perforations: From 7838 To 7988	Well No. 101
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 7982	Perforations: From Open To Ended	Unit Sec. Twp. Rge. K 24 31 6
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Commingle				Packer Set At 7280	County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _g	State New Mexico
L	H	Cq	% 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	13 Days						1990		X		3 Hrs
1.	2.375	.750					137		X		
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		149	1.000	19258	1.016	1733
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 _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 2002		P _c ² 4008004		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0285$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0213$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²			
1		333	110889	3897115			
2							
3							
4							
5							

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1770$$

Absolute Open Flow	1770	Mcf/d @ 15.025	Angle of Slope @	75
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Remarks: Heavy H₂O Did Not Flare

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