

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
MAR 14 1985
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 2-7-85	
Company Amoco Production Co.		Connection Northwest Pipeline	
Pool Basin		Formation Dakota	
Completion Date 1-25-85	Total Depth 8438	Plug Back TD 8430	Elevation 6620 GR
Farm or Lease Name Rosa Unit		Well No. 109	
Csq. Size 4.500	Wt. 11.6	d 4.000	Set At 8430
Perforations: From 8200 To 8352		Well No. 109	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 8358
Perforations: From open To ended		Unit Sec. Twp. Rge. M 9 31 5	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple commingle		Packer Set At 7768	
Producing Thru tubing		County Rio Arriba	
Reservoir Temp. °F #		State New Mexico	
Mean Annual Temp. °F		Baro. Press. - P _g	
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.	
SI	9days						2546		X	
1.	2.375	.750					246		X	
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		258	1.000	.9258	1.032	3048
2.							
3.							
4.							
5.							

NO.	P _t	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 _____ XXXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 2558		P _c ² 6543364	
NO.	P ₁ ²	P _w	P _w ²
1		593	351649
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0568$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0423$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3176$			

Absolute Open Flow	3176	Mcf/d @ 15.025	Angle of Slope @	Slope, n .75
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Remarks: Heavy spray thru test H2O

Approved By Division	Conducted By: 3 \$ R Services	Calculated By: JJ Barnett	Checked By: R
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