

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 5-16-86	
Company Amoco Production Co.		Connection Northwest Pipeline	
Pool Undesignated		Formation Gallup	
Completion Date		Total Depth 8680	Plug Back TD 8630
		Elevation 6797 GR	Farm or Lease Name Rosa Unit
Csg. Size 4.500	Wt. 11.6	d 4.000	Set At 8680
Perforations: From 7126 To 7748		Well No. 111	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 7812
Perforations: From Sliding To Sleeve		Unit Sec. Twp. Rge. N 21 31 5	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Commingled (Dual)		Packer Set At 7815	
Producing Thru Casing		County Rio Arriba	
Reservoir Temp. °F #		State New Mexico	
Mean Annual Temp. °F		Baro. Press. - P _a	
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	23 days						X		2630		
1.	2.375		.750								
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						
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

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{P_c^2}{P_c^2 - P_w^2}$	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1							
2							
3							
4							
5							

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

SEP 03 1986
OIL CON. DIV.
DIST. 3

Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope @ _____	Slope, n .75
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Remarks: _____ Unable to potential

Approved By Division	Conducted By: J.J. Barnett	Calculated By: J.J. Barnett	Checked By:
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Amoco Production Company

ENGINEERING CHART

Sheet No. _____ Of _____

File _____

Appn _____

Date _____

By _____

SUBJECT Rosa III OFFSET PRESSURES & IP'S

WELL	LOCATION	FORMATION	AOF		SITP	SICP
			IP			
Rosa III	Sec. 21 31N-5W	DAKOTA Gallup			2625	2640
Rosa 12X	Sec. 27 31N-5W Unit M	Dakota	1771		2552	2501 } common
		Gallup	1171		2520	
Rosa 101	Sec. 24 31N-6W Unit K	Dakota	1770		1990	2530 } common
		Gallup	719		2580	
Rosa 59	Sec. 25 31N-6W Unit N	Dakota	1891		2705	2450 } common
		Gallup	1735		2350	
Rosa 102	Sec. 30 31N-5W Unit I	Dakota	2708		2500	2345 } common
		Gallup	1451		2345	
Rosa 64	Sec. 29 31N-5W Unit A	Dakota	1380 2280		2280	

Avg. Dakota 1904 MCFD

Avg. Gallup 1269 MCFD