

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 2-4-86	
Company Amoco Production Co.		Connection Northwest Pipeline Corp.	
Pool Basin		Formation Dakota	
Completion Date 1-17-85		Total Depth 7650	Plug back TD 7547
Elevation 6651GL		Farm or Lease Name Jicarilla Contract 146	
Csq. Size 4.500	WI. 10.5	d 4.052	Set At 7650
Perforations: From 7240 To 7302		Well No. 21R	
Thq. Size 2.375	WI. 4.7	d 1.995	Set At 7314
Perforations: From open To ended		Unit Soc. Twp. Rge. N 3 25 5	
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Dual		Packer Set At 3898	County Rio Arriba
Producing Thru tubing	Reservoir Temp. °F P	Mean Annual Temp. °F	Baro. Press. - P _a
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	14 days						639		X		
1.	2.375		.750				48		X		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 Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mhd
1	12.365		60	1.000	.9258	1.007	692
2.							
3.							
4.							
5.							

NO.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2.										
3.										
4.										
5.										

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P _i 651	P _c 42 3801
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NO.	P _i	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0389$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0290$
1		126	15876	407925		
2						
3						
4						
5						

AOIF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 712$

Absolute Open Flow 712 Mhd @ 15.075 Angle of Slope 75

Remarks:

Approved By Division	Conducted By Joe Elledge	Calculated By J.J. Barnett	Checked By
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