

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-13-82	
Company Northwest Pipeline Corporation				Connection New Completion			
Pool Blanco				Formation Mesa Verde		Unit San Juan 32-7	
Completion Date 11-27-82		Total Depth 6250'		Plug Back TD 6150'		Elevation 6750'	
Farm or Lease Name San Juan 32-7 Unit						Well No. #46 MV	
Csg. Size 7.500 4.500	Wt. 23.0 10.5	d 6.366 4.052	Set At 4030' 3864'-6248'	Perforations: From 5742' To 6104'			
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 6025'	Perforations: From To		Unit Sec. Twp. Rye. B 34 32N 7W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Multiple Completion				Packer Set At 3820'		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12.0	
						State New Mexico	
L	H	Gg est. .590	% CO ₂	% N ₂	% H ₂ S	Positive Choke	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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	Shut-in Pressure						1187		Packer		
1.	2"	x	.750"	157		61 ⁰	157				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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	9.604		169	.999	1.302	1.013	2,139
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.
5.					Critical Temperature	R

$P_c = 1199$ $P_c^2 = 1437601$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0920$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0682$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²				
1		348	121104	1316497				
2								
3								
4								
5								

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,285$				Absolute Open Flow <u>2,285</u> Mcfd @ 15.025		Angle of Slope θ _____ Slope, n <u>.75</u>	
Remarks: Produced light mist of water throughout test. Vented 306 MCF.							
G1	1-e-s	FcQ ²	R ²	Pt ²	Pt ² +R ²	Calc. Pw	
3555	.228	404447	92214	28561	120775	348 PSIA	
Approved By Commission:		Conducted By: Fred S. Hamrick		Calculated By: B.J. Broughton		Checked By: BAR	