

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 7/18/78	
Company Northwest Pipeline Corporation			Connection New Completion		
Pool Blanco			Formation Mesa Verde		Unit San Juan 31-6
Completion Date 7/7/78		Total Depth 6060'		Plug Back TD 6006'	Elevation 6469'
Csg. Size 7.000		Wt. 20.0	d 6.456	Set At 3885	Perforations: From 5454 To 5864
4.500		10.5	4.052	3622-6060	Well No. 30
Tbg. Size 2.375		Wt. 4.7	d 1.995	Set At 5857	Perforations: From To
					Unit Sec. Twp. Rge. A 35 31 6
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F	
L H		Gg		Baro. Press. - P _g 12	
		.580		State New Mexico	
				County Rio Arriba	
				Meter Run Taps	
				Positive choke	

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							587		1200		SIP
1.	2 X .750			240		74°	240		715		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcd
1	9.604		252	.987	1.313	1.016	3187
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcl/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 1212 P _c ² 1468944				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		727	528529	940415
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5620$

AOF = C $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4453$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3972$

Absolute Open Flow	4453	Mcd @ 15.025	Angle of Slope °	Slope, n = 75
--------------------	------	--------------	------------------	---------------

Remarks: Well unloaded heavy slug of water then cleared to fine mist.

Approved By Commission:	Conducted By: Wilford Charley	Calculated By: B.J. Broughton	Checked By:
-------------------------	----------------------------------	----------------------------------	-------------