

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

Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-7-76			
Company Northwest Pipeline Corp.				Connection New Completion					
Pool Blanco				Formation Mesa Verde				Unit S.J. 30-5	
Completion Date 12-31-75		Total Depth 6706'		Plug Back TD 6595'		Elevation 7364' G1		Farm or Lease Name S.J. 30-5 Unit	
Csq. Size 4.500	Wt. 10.5	d 4.052	Set At 6706'	Perforations: From 6450' To 6478'			Well No. 46		
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 6482	Perforations: From To			Unit Sec. Twp. Rge. G 36 30 5 &		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single						Packer Set At none		County Rio Arriba	
Producing Thru tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L	H	G _g .650	% CO ₂	% N ₂	% H ₂ S	Prover 3/4 pos.ck.		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	7 day SIP						1061		1160	
1.	2 x .750			240		55°	240		636	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	12.365		252	1.005	.961	1.026	3088
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	
3.					Specific Gravity Flowing Fluid	
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 1172	P _c ² 1373584	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4403$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3147$
NO.	P _f ²	P _w	P _w ²
1		648	419904
2			
3			
4			
5			

Absolute Open Flow 4060		Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks: Well produced heavy water first 12 min. then cleared to light mist for remainder of test.

Approved By Commission:	Conducted By: Fred S. Hamrick	Calculated By: Bobby J. Broughton	Checked By: B.J.B.
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