

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 12/12/81		DEC 22 1981 O. C. D. UNIVERSITY, OFFICE							
Company: InterNorth, Inc.,		Connection: El Paso Natural Gas									
Well: Undesignated Robina Draw		Formation: Morrow		Parameter Name: Azotea Mason Federal							
Completion Date: 7/29/81		Total Depth: 10530'		Plug Back TD: 10405'							
				Elevation: 4243' GL							
Casing Size: 5 1/2"	WT. 17.0	d 4.767	Set At 10530'	Perforations: From 10160' To 10322'							
Tub. Size: 2 7/8"	WT. 6.5	d 2.441	Set At 10120	Perforations: Open Ended							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10121'							
Producing Zone: Tubing		Reservoir Temp. °F 60		Baro. Press. - P _g 13.2							
L -	H -	G _g 0.5889	% CO ₂ 1.155	% N ₂ 0.327	% H ₂ S -						
				Prover 4	Meter Run F						
FLOW DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g. DWT	Temp. °F	Press. p.s.i.g.	Temp. °F	
1	4	2/64	1.00	520	10.89	78	2210	60			6 days
2							825				4.0 hrs
3											
4											
5											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (4 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super. Compress. Factor, F _{spv}	Rate of Flow Q, Mcfd				
1	4.753	76.20	533.2	0.9831	1.303	1.036	480.65				
2											
3											
4											
5											
NO.	R	Temp. °F	T	Z	Gas-Liquid Hydrocarbon Ratio Dry Gas Mcf/zbl.						
1	0.79	538	1.56	0.932	A.P.G. Gravity of Liquid Hydrocarbons - Deg.						
2					Specific Gravity Separator Gas 0.5889 XXXXXXXXX						
3					Specific Gravity Flowing Fluid XXXXX						
4					Critical Pressure 679 P.S.I.A. - P.S.I.A.						
5					Critical Temperature 344 °F - °F						

NO.

NO.	P _w	P _c ²	P _c ² - P _w ²
1			
2			
3			
4			
5			

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

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

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

Absolute Gas Flow _____ Mcfd @ 15.025 Angle of Slope α _____ Slope, n _____

Remarks: ONE RATE STABILIZED FOR 1.0 Hr.

Approved by Division _____

Conducted By: JARREL WELL TESTING, INC.

Calculated By: Joe A. Coleman

Checked by: Joe A. Coleman
PE #2208