

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

Form C-172
 Revised 9-1965

Type Test: ☒ Initial ☐ Annual ☒ Special				Test Date: 4-30-81	
Company: AMOCO PRODUCTION COMPANY				Connection: El Paso Natural Gas	
Well: Blanco				Formation: Pictured Cliffs	
Completion Date: 04-13-81		Total Depth: 3184		Plug Back TD: 3140	
				Elevation: 6407 GL	
Casing Size: 4.500		ID: 4.052		Set At: 3186	
Perforations: From 2990 To 3050				Well No. 1	
Tubing Size: 2.375		ID: 1.995		Set At: 3054	
Perforations: From Open To Ended				Unit Sec. Twp. Rge. L 13 29N 9W	
Type Well - Single - Brodenhead - C.G. or G.O. Multiple: Single				Packer Set At: None	
Producing thru Tubing				County: San Juan	
Reservoir Temp. °F: ρ		Mean Annual Temp. °F		State: New Mexico	
L H G _g		% CO ₂ % H ₂		% H ₂ S Prover	
Meter Run		Taps			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Flow 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	
5	15 days						831		838		
1.	2.375		.750				215		388		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 _{sp}	Rate of Flow Q, Mcf/d
1	12.365		227	1.000	.9608	1.023	2759
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	
3					Specific Gravity Flowing Fluid	X X X X X
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R

$P_c = 850$ $P_c^2 = 722500$

NO.	P _w	P _w ²	P _c ² - P _w ²
1	400	160000	562500
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2844$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2371$

AOIF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3413$

AOIF Open Flow: 3413	Mcf/d 15.025	Angle of Slope θ	Slope, n 85
Remarks: Flowed dry			

Approved by Commission:	Conducted By: JJB	Calculated By: JJ Barnett	Checked By: <i>CS</i>
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