

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-04-81			
Company Caulkins Oil Company				Connection				
Pool Blanco Mesa Verde				Formation Mesa Verde				Unit
Completion Date 8-28-81		Total Depth 7575		Plug Back TD 7575		Elevation 6600'		Farm or Lease Name Breech C
Coq. Size 5 1/2"	Wt. 17# 15.5#	d 4.950 4.892	Set At 7575	Perforations From 5345 To 5488			Well No. 689E	
Thq. Size 1 1/4"	Wt. 2.3#	d 1.380	Set At 5571	Perforations From 5571 To			Unit Sec. Twp. Rge. P 12 26N 6W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Gas Multiple				Packer Set At 5657			County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	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.	Temp. °F	
SI							1177		1177		7 Days SI
1.	3/4" choke						33		617		3 hours
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, Mcfd
1	14.1605		45	1.000	1.000	1.000	637
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 Hydrocarbon	Deq.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 1189	P _c ² 1,413,721	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.389$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.279$
NO. 1	P ₁ ² 629	P _w ² 395,641	P _r ² - P _w ² 1,018,080
2.			
3.			
4.			
5.			

Absolute Open Flow 815 Mcfd @ 15.025		Angle of Slope 75	Slope, n
Remarks:			
Approved By Division			
Conducted By:		Calculated By:	
		Checked By:	