

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-02-80			
Company Caulkins Oil Company				Connection				
Pool Otero Chacra Blanco Mesa Verde				Formation Chacra Mesa Verde Commingled				Unit
Completion Date 8-25-80		Total Depth 7392'		Plug Back TD 7392		Elevation 6482'		Form or Lease Name Breech E
Coq. Size 7" & 4 1/2"	Wt. 23# 11.6	d 6.366 4.000	Set At 6641 7392	Perforations From 3816 To 5310		Well No. 68E		
Fig. Size 1 1/4"	Wt. 2.3	d 1.660	Set At 5318	Perforations From 5318 To		Unit Sec. Twp. Rge. L 4 26N 6W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas-Gas Multiple					Packer Set At 5337'		County Rio Arriba	
Producing thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico
L 5318	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Pipe

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							1049		1067		7 Days
1.							63		841		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 Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		75	1.000	1.000	1.000	1062
2.							
3.							
4.							
5.							

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

P _c 1079	P _c ² 1,164,241		
NO.	P _t ²	P _w ²	P _c ² - P _w ²
1		727,609	436,632
2.			
3.			
4.			
5.			

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 2.666$

AOF = Q $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 2.216$

(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 2.087$

Absolute Open Flow	2.216	Mcf @ 15.025	Angle of Slope Φ	Slope, n
Remarks:				

Approved by Division	Conducted by	Calculated by	Checked by
----------------------	--------------	---------------	------------