

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-30-80			
Company Caulkins Oil Company				Connection					
Pool Otero Chacra Blanco Mesa Verde				Formation Commingled Chacra & Mesa Verde				Unit	
Completion Date 10-23-80		Total Depth 7549		Plug Back TD 7549		Elevation 6615		Farm or Lease Name Breech C	
Coq. Size 7"	Wt. 23 & 26#	d 6.276	Set At 7549	Perforations: From 3978 To 5478		Well No. 248E			
Tbg. Size 1 1/4"	Wt. 2.3#	d 1.380	Set At 5460	Perforations: From 5460 To		Unit Sec. Twp. Rye. D 13 26N 6W			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Gas - Gas Multiple						Packer Set At 5520		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gq	% 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							913		913		7 Day SI
1.	3/4" Choke						43		482		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, Fpv	Rate of Flow Q, Mcfd
1	14.1605		55	1.000	1.000	1.000	779
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	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 925	P _c ² 855,625	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.399$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.286$
NO. 1	P _r ² 494	P _w ² 244,036	P _r ² - P _w ² 611,589
2			
3			
4			
5			

$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1002$

Absolute Open Flow	1,002	Mcf/d @ 15,025	Angle of Slope @	75	Slope, n
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Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
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