

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date			
Company Caulkins Oil Company						Connection			
Pool Otero Chacra						Formation Chacra			
Completion Date 10-15-79		Total Depth 7320		Plug Back TD 7320		Elevation 6499 Gr.		Farm or Lease Name Breech	
Coq. Size 7"	Wt. 23 & 26#	d 6.366	Set At 7320	Perforations: From 3618 To 3716		Well No. 224-A			
Thq. Size 1.1/4"	Wt. 2.3#	d 1.380	Set At 5090	Perforations: From 5090 To		Unit Sec. Twp. Rge. D 13 26N 7W			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Dual G-G Commingle and Dakota						Packer Set At 5180		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F P		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							1024		994		7 Days
1.							124		716		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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		136	1.000	1.000	1.000	1.926
2.							
3.							
4.							
5.							

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

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.975$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.666$
1		728	529,984	543,312		
2						
3						
4						
5						

$P_c = 1036$ $P_c^2 = 1,073,296$
 AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 3.209$

Absolute Open Flow	3.209	Mcfd @ 15.025	Angle of Slope	75
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Remarks:	As recommended in letter dated 10-23-79.	54% Chacra	1724 MCFPD
		46% Mesa Verde	1485 MCFPD

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