

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-22-79	
Company Caulkins Oil Company					Connection	
Pool Basin Dakota					Formation Dakota	
Completion Date 10-15-79		Total Depth 7320		Pack Back TD 7320		
				Elevation 6499 Gr.		
Form or Lease Name Breech					Well No. 224-A	
Csg. Size 7"	Wt. 23 & 26#	d 6.366	Set At 7320	Perforations: From 7048 To 7221		
Tbg. Size 2 3/8	Wt. 4.7#	d 1.991	Set At 7080	Perforations: From 7080 To		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual G-G Commingle and Dakota					Packer Set At 5180	
Producing Thru Tubing		Reservoir Temp. °F 6		Mean Annual Temp. °F		
				Baro. Press. - P _a		
L		H	Gg	% 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							1949		PKR		7 Days
1.							85		PKR		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		97	1.000	1.000	1.000	1374
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 _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _r 1961	P _r ² 3,845,521			
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²
1	9,409	240	57,472	3,788,049
2				
3				
4				
5				

$$(1) \frac{P_r^2}{P_r^2 - P_w^2} = 1.015$$

$$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1,390$$

$$(2) \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.01136$$

Absolute Open Flow	1,390	Mcf/d @ 15.025	Angle of Slope	75
Remarks:				

Approved By Commission	Conducted By:	Calculated By:	Checked By:
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