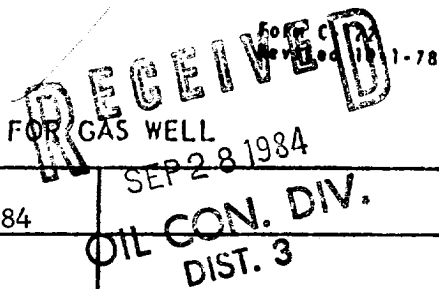


MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9-27-84	
Company Caulkins Oil Company		Connection	
Pool Blanco Mesa Verde		Formation Mesa Verde	
Completion Date 9-20-84		Total Depth 7630'	Plug Back TD 7630'
Elevation 6723 Gr		Farm or Lease Name Breech "D"	
Ceq. Size 5 1/2"	Wt. 15.5 & 17#	Set At 4.950 4.892	Perforations From 5472' To 4800'
Thq. Size 1 1/4"	Wt. 2.3#	Set At 1.380	Perforations From 5470' To
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Gas - Gas Multiple		Packer Set At 5490'	County Rio Arriba
Producing Thru Tubing	Reservoir Temp. °F	Mean Annual Temp. °F	State New Mexico
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							760		768		7 Days
1.							69		414		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		81	1.000	1.000	1.000	1147
2.							
3.							
4.							
5.							

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

$P_c = 768$					$P_c^2 = 589,824$					$(1) \frac{P_c^2}{P_t^2 - P_w^2} = \frac{1.444}{}$					$(2) \left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = \frac{1.3175}{}$				
NO	P_t^2		P_w		P_w^2		$P_t^2 - P_w^2$		$AOF = Q \left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = \frac{1.511}{}$										
1			426		181,476		408,348												
2																			
3																			
4																			
5																			

Absolute Open Flow 1,511 Mcfd @ 15.025 Angle of Slope 75 Slope, n

Remarks: