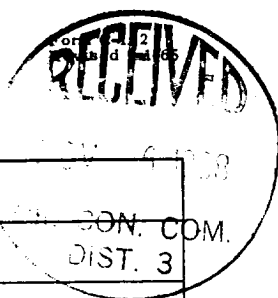


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-2-62	
Company Sicoma P. M. Hughes				Connection			
Pool 1st - 2nd - 3rd - 4th - 5th - 6th - 7th - 8th - 9th - 10th - 11th - 12th - 13th - 14th - 15th - 16th - 17th - 18th - 19th - 20th - 21st - 22nd - 23rd - 24th - 25th - 26th - 27th - 28th - 29th - 30th - 31st - 32nd - 33rd - 34th - 35th - 36th - 37th - 38th - 39th - 40th - 41st - 42nd - 43rd - 44th - 45th - 46th - 47th - 48th - 49th - 50th - 51st - 52nd - 53rd - 54th - 55th - 56th - 57th - 58th - 59th - 60th - 61st - 62nd - 63rd - 64th - 65th - 66th - 67th - 68th - 69th - 70th - 71st - 72nd - 73rd - 74th - 75th - 76th - 77th - 78th - 79th - 80th - 81st - 82nd - 83rd - 84th - 85th - 86th - 87th - 88th - 89th - 90th - 91st - 92nd - 93rd - 94th - 95th - 96th - 97th - 98th - 99th - 100th				Formation Gallup		Unit	
Completion Date 10-15-62		Total Depth 7847		Plug Back TD 7810		Elevation 6861 RKB	
Farm or Lease Name Sicoma P. M. Hughes		Well No. 5					
Csg. Size 4 1/2		Wt. 125 EHL		Set At 7847		Perforations: From 7081 To 7103	
Tbg. Size 2 1/2		Wt. 4.7		Set At 7587		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. - G.O. Dual						Packer Set At 7587	
Producing Thru Casing		Reservoir Temp. °F a		Mean Annual Temp. °F		Baro. Press. - P _g	
State New Mexico		County Rio Arriba					
L		H		G _g .65		% 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.	
SI									1696	
1.										
2.	2 1/2 Casing			911		615				2475
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							
2	17.365		600	1.071	.9208	1.000	11.938
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 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 _c 1740	P _c ² 2,997,600	
NO.	P _r ²	P _w
1	851,900	1700
2		
3		
4		
5		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.8677$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 19,072$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5976$$

Absolute Open Flow	17,370 Mcfd @ 15.025	Angle of Slope	0.75
Remarks: This well is producing on casing - tubing annulus			
Approved By Commission:	Conducted By:	Calculated By:	Checked By: