

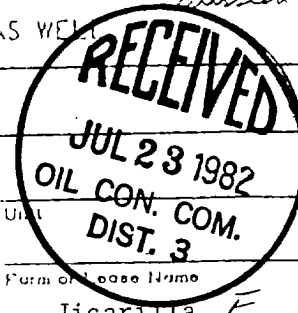
OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTForm C-177
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



Type Test		☒ Initial		☐ Annual		☐ Special		Test Date		7/21/82	
Company				Southern Union Exploration				Connection			
Pool				Wildhorse Gallup				Formation			
Completion Date				7/6/82				Total Depth			
7/6/82				7890				Plug Back TD			
								7875			
Csg. Size				5.500				Elevation			
17				4.892				6805			
Set At				7890				Perforations			
								From 7188 To 7195			
Perf. Size				2 1/16				Perforations			
3.25				1.751				From To			
Set At				7183				To			
Type Well - Single - Broadhead - G.C. or G.O. Multiple				GG (Gallup-Dakota)				Packer Set At			
Producing thru				Tubing				Baro. Press. - P ₀			
L				H				NM			
G _g				% CO 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	Duration of Flow
51							386		386		SIP
1.			.750	5		74			16		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mhd				
1	12.3650		17	.9868	.9608	1.004	275				
2											
3											
4											
5											
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mol. Lbl.						
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2					Specific Gravity Separator Gas .650 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 398 P _c ² 158404					(1) $\frac{P_c^2}{P^2 - P_w^2} = 1.0050$ (2) $\left[\frac{P_c^2}{P^2 - P_w^2} \right]^n = 1.0037$						
NO.	P _t	P _w	P _c	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P^2 - P_w^2} \right]^n = 276$						
1		28	784	157620							
2											
3											
4											
5											
Absolute Open Flow 276					Mhd @ 15.025			Angle of Slope		Slope, n .75	
Remarks:											
Approved By Division				Conducted By:				Calculated By:			
				C.R. WAGNER				C.R. WAGNER			
Checked By:											