

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

Form C-122
Revised 9-1-65

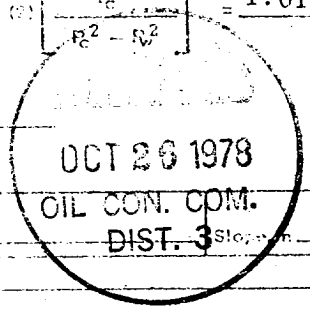
Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-10-78	
Company Southland Royalty Company		Connection Southern Union Gathering	
Pool Blanco		Formation Pictured Cliffs	
Completion Date 10-3-78		Total Depth 2952'	Play Back TD 2913'
		Elevation 5976' GR	
Form or Lease Name Harrison		Well No. 2	
Csg. Size 5.500	Wt. 14.0#	d 5.012	Set At 2952'
Perforations: From 2766'	To 2850'		
Teg. Size 1.900	Wt. 2.75#	d 1.610	Set At 2893'
Perforations: From		To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Multiple		Packer Set At 2546'	County San Juan
Producing Thru Tbg.		Reservoir Temp. °F θ	Mean Annual Temp. °F 12.2
State New Mexico			
L	H	Gg .700	% 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
1.	2"	X	3/4"				636				1 hr
2.							78				2 hrs
3.							72				3 hrs
4.							70				
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	12.365		82.2	1.0000	.9258	1.0000	941
2							
3							
4							
5							

NO.	P _c	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mol/cbl.
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

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	(i) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0163$	(ii) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0138$
1	648.2	82.2	6,757	413,406		
2						
3						
4						
5						

Assumed True Flow	954	Factor 1.0075	Factor of Slope θ	.85
				
Remarks:				

Approved By Consultant	Conducted By: Bob Shindledecker	Calculated By: Odell Farley	Checked By:
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