

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12-19-83				
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Blanco				Formation Pictured Cliffs				Unit	
Completion Date 11-17-83		Total Depth 2775'		Plug Back TD 2747'		Elevation 6136' GL		Farm or Lease Name Hubbard	
Csg. Size 2.875	Wt. 6.4#	d 2.441	Set At 2757'	Perforations: From 2551' To 2575'			Well No. 8		
Tng. Size ---	Wt. ---	d ---	Set At ---	Perforations: From --- To ---			Unit Sec. Twp. Rge. G 15 32N 12W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple					Packer Set At ---		County San Juan		
Producing Thru Casing		Reservoir Temp. °F 8		Mean Annual Temp. °F 12.2		Baro. Press. - P _a 12.2		State New Mexico	
L	H	G _g .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	
SI									731		
1.	2"	X	3/4"						3		1 hr
2.									3		2 hrs
3.									3		3 hrs
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, Mcfd
1	12.365		15.2	1.0000	.9258	1.0000	174
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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

$P_c = 743.2$ $P_c^2 = 552346.2$					$(1) \frac{P_c^2}{P_c^2 - R_w^2} = 1.0004$		$(2) \left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.0004$	
NO.	P _t ²	P _w	P _w ²	P _c ² - R _w ²				
1		15.2	231.0	552115.2				
2								
3								
4								
5								

$AOF = Q \left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 174$				
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Absolute Open Flow 174 Mcfd @ 15.025		Angle of Slope @ _____		Slope, n = 85	
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Remarks: _____			
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Approved by Division	Conducted By: Richard Ramos	Calculated By: James W. Smith	Checked By: R. E. Fielder
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