

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 9-14-83		SEP 16 1983	
Company Southland Royalty Company				Connection Southern Union Gathering		OIL CON. DIV.	
Pool Basin				Formation Dakota		Unit DIST. 3	
Completion Date 9-6-83		Total Depth 7425'		Plug Back TD 7376'		Elevation 6168' GL	
Farm or Lease Name Decker "A"							
Csg. Size 4.500		Wt. 23#		Set At 4888'		Perforations: From To	
Thg. Size 2.375		Wt. 4.6#		Set At 7279'		Perforations: From 7143' To 7281'	
Type Well - Single - Draddenhead - G.G. or G.O. Multiple Single				Packer Set At ---		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		State New Mexico	
L		H		Cg 700		% CO ₂ % N ₂ % H ₂ S Prover Meter Run Taps	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Duration of Flow
1.	2"	X	3/4"				1 hr
2.							2 hrs
3.							3 hrs
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	12.365		63.2	1.0000	.9258	1.0000	723
2.							
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		
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 828.2 P _c ² 685915.2							
NO.	P _i ²	P _w	P _w ²	P _i ² - P _w ²	(1) $\frac{P_c^2}{P_i^2 - P_w^2} = 1.0474$ (2) $\left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n = 1.0353$		
1		176.2	31046.4	654868.6			
2							
3							
4							
5							
Absolute Open Flow 749 Mcfd @ 15.025					Angle of Slope @		Slope, n .75
Remarks:							
Approved By Division		Conducted By: Steve McCament		Calculated By: James W. Smith		Checked By: R. E. Fielder	