

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 9-24-81		***RE-TEST***	
Company Southland Royalty Company n				Connection Southern Union Gathering			
Pool Blanco				Formation Pictured Cliffs		Unit	
Completion Date 8-22-81		Total Depth 2685'		Plug Back TD 2624'		Elevation 6090' GR	
Farm or Lease Name Hubbard							
Csq. Size 4.500	Wt. 10.5#	d 4.052	Set At 2669'	Perforations: From To		Well No. 6	
Tbg. Size 1.900	Wt. 2.9#	d 1.610	Set At 2474'	Perforations: From 2486' To 2510'		Unit Soc. Twp. Rge. N 15 32N 12W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple - G.G.				Packer Set At 2399'		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F P		Mean Annual Temp. °F		Baro. Press. - P _a 12.2	
State							
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.	
SI							924			
1.	2"	X	3/4"				34			1 hr
2.							22			2 hrs
3.							16			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		28.2	1.0000	.9258	1.0000	323
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 _____
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ R

P _c 936.2 P _c ² 876470.4				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		28.2	795.2	875675.2
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0009$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 323$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0008$$

Absolute Open Flow	323	Mcfd @ 15.025	Angle of Slope θ	Slope, n .85
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Remarks: _____

Approved By Division	Conducted By: Dick Irvin	Calculated By: James Smith	Checked By: L. O. Van Ryan
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