STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 1-1-81	
Company: Southland Royalty Company		Connection: Southern Union Gathering			
Pool: Basin		Formation: Dakota		Unit	
Completion Date: 11-21-80	Total Depth: 6715'	Plug Back TD: 6669'	Elevation: 6069' GR	Farm or Lease Name: HUBBELL "A"	
Csg. Size: 5.500 / Wt.: 15.5# / d: 4.950 / Set At: 6715'		Perforations: From To		Well No.: #1E	
Tbg. Size: 2.375 / Wt.: 4.70# / d: 1.995 / Set At: 6643'		Perforations: From 6459' To 6648'		Unit: F / Sec.: 29 / Twp.: 28N / Rge.: 10W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - G		Packer Set At: --		County: San Juan	
Producing Thru: Tubing	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.2	State: New Mexico	
L	H	Gg: .700	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps

	FLOW DATA				TUBING DATA		CASING DATA		
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
SI					490		988		
1.	2" X 5/8"				470		703		1 Hour
2.					140		413		2 Hours
3.					35		461		3 Hours
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	8.5417		47.2	1.0000	.9258	1.0000	373
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	Z
1				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid _____ XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1000.2 P_c^2 1000400.0

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2884$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2093$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 451$

Absolute Open Flow 451 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: 12 bbls oil, 4-5 bbls water

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Steve Kellenaers	James Smith	L. O. Van Ryan