NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 10-25-78	
Company: Southland Royalty Company		Connection: Southern Union Gathering		
Pool: Basin		Formation: Dakota		Unit
Completion Date: 10-18-78	Total Depth: 7799'	Plug Back TD: 7793'	Elevation: 6534'	Farm or Lease Name: Day State
Csg. Size: 7.000 / 4.500 — Wt.: 23# / 10.5# — d: 6.366 / 4.052 — Set At: 3376' / 3217-7799		Perforations: From 7682' To 7793'		Well No.: #2
Tbg. Size: 2.375 — Wt.: 4.7# — d: 1.995 — Set At: 7724'		Perforations: From To		Unit: E — Sec.: 32 — Twp.: 32N — Rge.: R11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: ---		County: Rio Arriba
Producing Thru: Tbg.	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						2005		2005		
1.	2"	X 3/4"				165		679		1 hr
2.						95		419		2 hrs
3.						80		380		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		92.2	1.0000	.9258	1.0000	1,055
2.							
3.							
4.							
5.							

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

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

P_c 2,017.2 P_c^2 4,069,096

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		392.2	153,821	3,915,275
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0393$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0295$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,086$

Absolute Open Flow 1,086 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Charles Saiz	James Smith	