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

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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: 8-15-80	
Company: Southland Royalty Company	Connection: Southern Union Gathering			
Pool: Undesignated	Formation: Fruitland			Unit
Completion Date: 8-1-80	Total Depth: 7541'	Plug Back TD: 7508'	Elevation: 6283' GL	Farm or Lease Name: Davis
Csg. Size: 7.000 / 4.500	Wt.: 20# / 10.5# & 11.6	d: 6.456 / 4.052	Set At: 5046' / 4890'-7541'	Perforations: From To; Well No.: #7E
Tbg. Size: 1.900	Wt.: 2.76#	d: 1.610	Set At: 2781'	Perforations: From 2372' To 2765'; Unit: L; Sec.: 11; Twp.: 31N; Rge.: 12W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: GG-Multiple			Packer Set At: 4947'	County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F:	Mean Annual Temp. °F: 12.2	Baro. Press. – P_a:	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.700						

	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					867		867		
1.	2" X 3/4"				30		116		1 Hour
2.					10		56		2 Hours
3.					7		53		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	12.365		19.2	1.0000	.9258	1.0000	220
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	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

P_c 879.2 P_c^2 772992.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		65.2	4251.0	768741.6
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0055$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{.85} = 1.0047$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 221$

Absolute Open Flow 221 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

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