OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

RECEIVED
AUG 05 1982
OIL CON. DIV.
DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 8-3-82	
Company: Southland Royalty Company			Connection: Southern Union Gathering		
Pool: Aztec			Formation: Fruitland		Unit
Completion Date: 7-22-82	Total Depth: 1462'		Plug Back TD: 1440'	Elevation: 5554' GR	Farm or Lease Name: Browning Stewart
Csg. Size: 2.875 / Wt.: 6.5# / d: 2.441 / Set At: 1452'			Perforations: From 1405' To 1414'		Well No.: 6
Tbg. Size: ---- / Wt.: ---- / d: ----- / Set At: -----			Perforations: From ---- To ----		Unit: J / Sec.: 10 / Twp.: 28N / Rge.: 11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: ----		County: San Juan
Producing Thru: Casing	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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI									373		
1.	2"	X	3/4"						166		1 hr
2.									147		2 hrs
3.									138		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		150.2	1.0000	.9258	1.0000	1719
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 _____ R

P_c 385.2 P_c^2 148379.0

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		150.2	22560.0	125819
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1793$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1505$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1978$

Absolute Open Flow 1978 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Odell Farley	James Smith	R. E. Fielder