NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 2-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-4-78	
Company: Southland Royalty Company			Connection: Southern Union Gathering Company		
Pool: Undesignated			Formation: Fruitland		Unit
Completion Date: 9-28-78	Total Depth: 3052'		Plug Back TD: 3010'	Elevation: 6110' GR	Farm or Lease Name: Childers
Csg. Size: 5.500 / Wt.: 15.50# / d: 4.950 / Set At: 3052'			Perforations: From 2535' To 2749'		Well No.: #2
Tbg. Size: 1.660 / Wt.: 2.40# / d: 1.380 / Set At: 2773'			Perforations: From To		Unit: M / Sec.: 1 / Twp.: T31N / Rge.: R11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Multiple G.G.			Packer Set At: 2801'		County: San Juan
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

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							937		937		
1.	2"	X	3/4"				90		457		1 hr
2.							80		394		2 hrs
3.							73		354		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		85.2	1.0000	.9258	1.0000	975
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 949.2 P_c^2 900,981

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		366.2	134,102	766,879
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1749$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1468$

AOF = $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1118

OCT 25 1978
OIL CON. COM.
DIST. 3

Absolute Open Flow 1,118 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Bob Shindledecker	Odell Farley	