NEW MEXICO OIL CONSERVATION COMMSSION

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: 11-22-78	
Company: Southland Royalty Company		Connection: El Paso Natural Gas Company		
Pool: Blanco		Formation: Pictured Cliffs		Unit
Completion Date: 11-15-78	Total Depth: 3174'	Plug Back TD: 3105'	Elevation: 6298' GR	Farm or Lease Name: Maddox Waller
Csg. Size: 2.875 / Wt.: 6.5 / d: 2.441 / Set At: 3149'		Perforations: From 3048' To 3090'		Well No.: #2
Tbg. Size: — / Wt.: — / d: — / Set At: —		Perforations: From — To —		Unit: N / Sec.: 14 / Twp.: T32N / Rge.: R11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: --		County: San Juan
Producing Thru: Csg.	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								674		
1.	2"	X 3/4"						136		1 hr
2.								122		2 hrs
3.								116		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		128.2	1.0000	.9258	1.0000	1,468
2.							
3.							
4.							
5.							

NO.	P_r	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 686.2 P_c^2 470,870

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		128.2	16,435	454,435
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0362$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0307$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,513$

Absolute Open Flow 1,513 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Bob Shindledecker	James Smith	OK