NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

SEP 15 1978
OIL CON. COM.
DIST. 3

Type Test: XX Initial ☐ Annual ☐ Special			Test Date: 8-31-78	
Company: Southland Royalty Company		Connection: Southern Union Gathering Company		Unit
Pool: Blanco		Formation: Mesa Verde		
Completion Date: 8-18-78	Total Depth: 5610	Plug Back TD: 5566	Elevation: 6232 GL, 6243 KB	Farm or Lease Name: Page
Csg. Size: 7.000 / 4.500	Wt.: 20# / 10.50#	d: 6.456 / 4.052	Set At: 3274' / 3129'-5610'	Perforations: From 4545' To 5156'
Well No.: 2A				
Tbg. Size: 2.375	Wt.: 4.70	d: 1.995	Set At: 5439	Perforations: From 5260 To 5460
Unit: I	Sec.: 7	Twp.: 32N	Rge.: 10W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: ------		County: San Juan
Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a: 12.2	State: New Mexico

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

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					547		852		
1.	2" X 3/4"				254		765		1 Hr.
2.					248		731		2 Hrs.
3.					243		707		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		255.2	1.0000	.9258	1.0000	2921
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 864.2 P_c^2 746,842

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		719.2	517,249	229,593
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.2529$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.4422$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7075$

Absolute Open Flow 7075 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

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