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: 5-23-79	
Company: Southland Royalty Company		Connection: Southern Union Gathering		
Pool: Blanco		Formation: Mesa Verde		Unit
Completion Date: 5-16-79	Total Depth: 5053'	Plug Back TD: 5035'	Elevation: 5983'	Farm or Lease Name: Hampton
Csg. Size: 7.000 / 4.500 — Wt.: 20# / 10.5# — d: 6.456 / 4.052 — Set At: 2708' / 2547-5047'		Perforations: From 4253' To 4851'		Well No.: 5
Tbg. Size: 2.375 — Wt.: 4.7# — d: 1.995 — Set At: 4838'		Perforations: From To		Unit: C — Sec.: 13 — Twp.: 30N — Rge.: 11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At:		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	% 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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI					990		1000		
1.	2" X 3/4"				190		710		1 hr.
2.					175		650		2 hrs.
3.					155		610		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		167.2	1.0000	.9258	1.0000	1914
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 1012.2 P_c^2 1,024,549

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		622.2	387,133	637,416
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6073$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.4275$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2732$

JUN 14 1979
OIL CON. COM.
DIST. 3

Absolute Open Flow 2732 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope n 3.75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Mike Cattaneo		