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: 11-6-78	
Company: Southland Royalty Company			Connection: Southern Union Gathering		
Pool: Basin			Formation: Dakota		Unit:
Completion Date: 10-30-78	Total Depth: 7225'		Plug Back TD: 7176'	Elevation: 6122' GR	Farm or Lease Name: Grenier "A"
Csg. Size: 7.000 / 4.500	Wt.: 23# / 10.5#	d: 6.366 / 4.052	Set At: 5346' / 5198-7225'	Perforations: From 7015' To 7127'	Well No.: #8
Tbg. Size: 2.375	Wt.: 4.7#	d: 1.995	Set At: 7074'	Perforations: From To	Unit: F- Sec.: 35 Twp.: 30N Rge.: 10W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G.G. Multiple			Packer Set At: 5263'		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					1811				
1.	2" X 3/4"				243				1 hr
2.					154				2 hrs
3.					155				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	1,914
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	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 1825.2 P_c^2 3,324,058

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		167.2	27,956	3,296,102
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0085$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0064$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,926$

Absolute Open Flow 1,926 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: H2° and small amount of oil

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Abe Saiz	James Smith	