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: 5-8-79	
Company: Southland Royalty Company	Connection: Gas Company of New Mexico			
Pool: South Blanco	Formation: Pictured Cliffs			Unit:
Completion Date: 5-1-79	Total Depth: 3836'	Plug Back TD: 3806'	Elevation: 7332'	Farm or Lease Name: Arizona Jicarilla
Csg. Size: 2.875 / Wt.: 24# / d: 2.441 / Set At: 3831'		Perforations: From 3656' To 3680'		Well No.: 10
Tbg. Size: -- / Wt.: -- / d: -- / Set At: --		Perforations: From -- To --		Unit: H / Sec.: 35 / Twp.: T25N / Rge.: R4W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: --		County: Rio Arriba,
Producing Thru: Csg.	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									987		
1.	2"	X	3/4"						247		1 hr
2.									203		2 hrs
3.									173		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		185.2	1.0000	.9258	1.0000	2,120
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 999.2 P_c^2 998,401

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		185.2	34,299	964,102
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0356$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0302$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,184$

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DIST. 3

Absolute Open Flow 2,184 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Don Thompson	James Smith	