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: 5-7-80	
Company: Southland Royalty Company		Connection: Southern Union Gathering			
Pool: Blanco		Formation: Mesa Verde		Unit	
Completion Date: 4-23-80	Total Depth: 6490'	Plug Back TD: 6436'	Elevation: 5737' GR	Farm or Lease Name: McClanahan	
Csg. Size: 5.5000 / Wt.: 15.5# / d: 4.892 / Set At: 6480'		Perforations: From To		Well No.: #15E	
Tbg. Size: 1.9000 / Wt.: 2.75# / d: 1.6100 / Set At: 4401'		Perforations: From 4190' To 4399'		Unit: O / Sec.: 14 / Twp.: 28N / Rge.: 10W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: GG Multiple		Packer Set At: 4505'		County: San Juan	
Producing Thru	Reservoir Temp. °F: θ	Mean Annual Temp. °F	Baro. Press. – P_a: 12.2	State: NM	

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					766		1146		
1.	2 " X 1/2"				235		727		1 Hour
2.					105		624		2 Hours
3.					48		605		3 Hours
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	5.4315		60.2	1.0000	.9258	1.0000	303
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 1158.2 P_c^2 1341427.2

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		617.2	380935.8	960491.4
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3966$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2847$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 420$

Absolute Open Flow 420 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Jim Chocuette	James Smith	L. O. Van Ryan