NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 5-11-79	
Company: Southland Royalty Company		Connection: Southern Union Gathering Company		
Pool: Blanco		Formation: Mesaverde		Unit
Completion Date: 5-4-79	Total Depth: 5016'	Plug Back TD: 4980'	Elevation: 5964' GR	Farm or Lease Name: Thompson
Csg. Size: 7.000 / 4.500; Wt.: 20# / 10.5#; d: 6.456 / 4.052; Set At: 2576 / 2438-5014		Perforations: From 4681' To 4930'		Well No.: #3A
Tbg. Size: 2.375; Wt.: 4.7#; d: 1.995; Set At: 4922		Perforations: From To		Unit: (J) Sec. 34-31N-12W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: --		County: San Juan
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							994		1036		
1.	2"	X	3/4"				343		731		1 hr
2.							302		649		2 hrs
3.							279		601		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		291.2	1.0000	.9258	1.0000	3,334
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 1048.2 P_c^2 1,098,723

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		613.2	376,014	722,709
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5203$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3691$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4,565$

RECEIVED
MAY 17 1979
OIL CON. COM.
DIST. 3

Absolute Open Flow 4,565 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Jim Bacon	James Smith	