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: 8-11-79	
Company: Southland Royalty Company		Connection: El Paso Natural Gas Company		
Pool: Blanco		Formation: Mesa Verde		Unit
Completion Date: 8-4-79	Total Depth: 8237'	Plug Back TD: 8197'	Elevation: 6650' GR	Farm or Lease Name: Reese Mesa
Csg. Size: 7.000 / 4.500	Wt.: 23# / 10.5#	d: 6.366 / 4.052	Set At: 6231' / 6079-8234'	Perforations: From 5618' To 5974'
Well No.: 5				
Tbg. Size: 1.900	Wt.: 2.90#	d: 1.610	Set At: 5970'	Perforations: From --- To ----
Unit: C	Sec.: 13	Twp.: 32N	Rge.: 8W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Multiple		Packer Set At: 6165'	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: .700	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					1318		1330		
1.	2" X 3/4"				112		1063		1 hr
2.					111		967		2 hrs
3.					103		908		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		115.2	1.0000	.9258	1.0000	1319
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 1342.2 P_c^2 1801501

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		920.2	846768	954733
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8869$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6100$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2124$

RECEIVED
AUG 16 1979
OIL CON. COM.
DIST. 3

Absolute Open Flow 2124 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

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