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: 10-1-79	
Company: Southland Royalty Company	Connection: Gas Company of New Mexico			
Pool: Blanco	Formation: Pictured Cliffs		Unit	
Completion Date: 9-24-79	Total Depth: 6215'	Plug Back TD: 6120'	Elevation: 7072' GR	Farm or Lease Name: Jicarilla 101
Csg. Size: 7.000 / 4.500 — Wt.: 20# / 10.50# — d: 6.456 / 4.052 — Set At: 4092' / 3934-6215'		Perforations: From 3796' To 3841'		Well No.: #8
Tbg. Size: 1.900 — Wt.: 2.76# — d: 1.610 — Set At: 3839		Perforations: From --- To ---		Unit: N — Sec.: 12 — Twp.: 26N — Rge.: 4W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Multiple		Packer Set At: 4040'		County: Rio Arriba
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							970		1010		
1.	2"		3/4"				95		475		3 hrs
2.											
3.											
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		107.2	1.0000	.9258	1.0000	1227
2.							
3.							
4.							
5.							

NO.	P_r	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 P.S.I.A.
Critical Pressure _____ R _____ R
Critical Temperature _____

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OCT 4 1979
OIL CON. COM.
DIST. 3

P_c 1022.2 P_c^2 1,044,893

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		487.2	237,364	807,529
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2939$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2449$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1527$

Absolute Open Flow 1527 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Dwayne Horton	James Smith	