NEW MEXICO OIL CONSERVATION COMMISSION

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: 12-13-79	
Company: Southland Royalty Company		Connection: El Paso Natural Gas Company			
Pool: Choza Mesa		Formation: Pictured Cliffs		Unit	
Completion Date: 12-6-79	Total Depth: 6510'	Plug Back TD: 6462'	Elevation: 7248'	Farm or Lease Name: Jicarilla 449	
Csg. Size: 7.0000 / 4.5000	Wt.: 20 & 23# / 10.5#	d: 6.456 / 4.052	Set At: 4369' / 4222-6508	Perforations: From 3952' To 4056'	Well No.: #1
Tbg. Size: 2.375	Wt.: 4.7#	d: 1.995	Set At: 4044'	Perforations: From To	Unit: B Sec.: 30 Twp.: 28N Rge.: 3W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 6330'		County: Rio Arriba	
Producing Thru: Tubing	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	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					1094		1100		
1.	2" x 3/4"				68		533		1 Hour
2.					5		624		2 Hours
3.					3		649		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	12.365		15.2	1.0000	.9258	1.0000	174
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid _____ XXXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

JAN 18 19[illegible]
OIL CON. COM.
DIST. 3

P_c 1112.2 P_c^2 1236988.8

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		661.2	4371854	799803.4
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5466$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.4487$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 252$

Absolute Open Flow 252 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

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