STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

RECEIVED
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OIL CON. COM.
DIST. 3

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 6-24-82	
Company: Southland Royalty Company			Connection: Southern Union Gathering		
Pool: Bloomfield			Formation: Chacra		Unit
Completion Date: 6-18-82	Total Depth: 3220'		Plug Back TD: 3190'	Elevation: 5884' GL	Farm or Lease Name: Cain
Csg. Size: 2.875 / Wt.: 6.5# / d: 2.441 / Set At: 3212'			Perforations: From 3002' To 3127'		Well No.: 23
Tbg. Size: ---- / Wt.: --- / d: ---- / Set At: ----			Perforations: From To		Unit: A / Sec.: 16 / Twp.: 28N / Rge.: 10W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: ----		County: San Juan
Producing Thru: Casing	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								933		
1.	2"	X 3/4"						332		1 hr
2.								198		2 hrs
3.								169		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		181.2	1.0000	.9258	1.0000	2074
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 _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 945.2 P_c^2 893403.0

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		181.2	32833.4	860569.6
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0382$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0285$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2133$

Absolute Open Flow 2133 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Steve Kellenaers	James Smith	R. E. Fielder