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: 4-3-79	
Company: Southland Royalty Company	Connection: Southern Union Gathering			
Pool: Undesignated	Formation: Chacra			Unit
Completion Date: 3-21-79	Total Depth: 5783'	Plug Back TD: 5773'	Elevation: 7103'	Farm or Lease Name: Hanks
Csg. Size: 7.000 / 4.500 — Wt.: 20# / 10.5# — d: 6.456 / 4.052 — Set At: 3400' / 3239'-5773' — Perforations: From 4261' To 4273'				Well No.: #24
Tbg. Size: 1.660 — Wt.: 2.33# — d: 1.380 — Set At: 4206' — Perforations: From To				Unit: B — Sec.: 5 — Twp.: 27N — Rge.: 9W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G.O. Multiple		Packer Set At: 4400'		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	% 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						914		911		
1.	2"	X 3/4"				112		690		1 hr
2.						81		514		2 hrs
3.						66		379		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		78.2	1.0000	.9258	1.0000	895
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 XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 926.2 P_c^2 857,846

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		391.2	153,037	704,809
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2171$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1818$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,058$

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OIL CON. COM.
DIST. 3

Absolute Open Flow 1,058 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Abel Saiz	James Smith	