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: 7-25-79	
Company: Southland Royalty Company		Connection: El Paso Natural Gas Company			
Pool: Aztec		Formation: Pictured Cliffs		Unit:	
Completion Date: 7-18-79	Total Depth: 2850'	Plug Back TD: 2839'	Elevation: 6185' GR	Farm or Lease Name: Hedges	
Csg. Size: 2.875 / Wt.: 6.5# / d: 2.441 / Set At: 2839'		Perforations: From 2702' To 2713'		Well No.: 3	
Tbg. Size: ---- / Wt.: --- / d: --- / Set At: ---		Perforations: From To		Unit: A / Sec.: 23 / Twp.: 31N / Rge.: 12W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Multiple		Packer Set At: --		County: San Juan	
Producing Thru: Csg	Reservoir Temp. °F: e	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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							645		
1.	2" X 3/4"						40		1 hr
2.							30		2 hrs
3.							24		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		36.2	1.0000	.9258	1.0000	414
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 657.2 P_c^2 431,912

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		36.2	1,310	430,602
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0030$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0026$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 415$

Absolute Open Flow 415 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Mick Ferrari	James Smith	