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: 7/26/83	
Company: Basin Minerals, Inc.		Connection: None			
Pool: Aztec Pictured Cliffs		Formation: Pictured Cliffs			Unit
Completion Date: 7/18/83	Total Depth: 2670'		Plug Back TD: 2589'	Elevation: 5822'K.B.	Farm or Lease Name: Federal
Csg. Size: 4.500 / Wt.: 10.50 / d: 4.000 / Set At: 2662'			Perforations: From 2415' To 2448'		Well No.: 1
Tbg. Size: 1.660 / Wt.: 2.40 / d: 1.380 / Set At: 2397'			Perforations: None From Open Ended To		Unit: N / Sec.: 27 / Twp.: 31N / Rge.: 11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas			Packer Set At: None		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F: 105 @ 2670	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 12.0		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
.2397	2397	0.60	--	--	--	--	--	--

	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					570		580		8 days
1.	3/4" T.H.C.				160		170		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	12.3650		172	1.000	1.000	1.000	2,127
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 592 P_c^2 350,464

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		182	33,124	317,340
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1043$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0880$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,314$

Absolute Open Flow 2,314 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Bill Matthews	Red Walsh	