

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/18/84	
Company BASIN MINERALS, INC.				Connection	
Pool Blanco Mesa Verde				Formation Mesa Verde	
Completion Date 9/16/84		Total Depth 5200'		Plug Back TD 5157'	
				Elevation 5801' GR	
Csg. Size 4-1/2		Wt. 10.50		d 4.052	
Set At 5197'		Perforations: From 4601 To 4989		Well No. 100-A	
Thq. Size 2-3/8		Wt. 4.70		d 1.995	
Set At 4799'		Perforations: From To Open Ended		Unit Sec. Twp. Rge. M 27 31N 11W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At NONE	
Producing Thru Tubing				County San Juan	
Reservoir Temp. °F 133 @ 5200		Mean Annual Temp. °F 60		Baro. Press. - P _a 12.0	
State New Mexico					
L 4799		H 4799		G _g 0.600	
% CO ₂		% N ₂		% H ₂ S	
Prover		Meter Run		Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
1.	3/4" THC						1025		1025		8 days
2.							320		860		3 hrs.
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	12.3650		332	1.0000	1.0000	1.0000	4,105
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ °R _____ °R

P _c 1037 P _c ² 1,075,369				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		872	760,384	314,985
2.				
3.				
4.				
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 3.4140$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.512$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 10,310$$

Absolute Open Flow	10,310	Mcf/d @ 15.025	Angle of Slope ϕ	Slope, n 0.75
Remarks:				

Approved By Commission:	Conducted By: Bill Matthews	Calculated By: Ewell N. Walsh	Checked By:
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