

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 12-29-70						
Company Astec Oil & Gas Company					Connection Southern Union Gathering						
Pool Blanco Extension					Formation Pictured Cliffs						
Completion Date 12-22-70			Total Depth 2980		Plug Back TD 2980		Elevation 6272 Gr		Farm or Lease Name Patterson C-Com		
Coq. Size 4 1/2"	Wt. 10.50#	d	Set At 2983	Perforations: From 2834 To 2856				Well No. #1			
Teg. Size 1"	Wt. 1.7#	d	Set At 2837	Perforations: From ---- To ----				Unit Sec. Twp. Rge. P 2 31 12			
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		State New Mexico			
L	H	Cg	% 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	
5.							745		745		
1.	2"		3/4				84		62		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	12.365		94	1.0000	.9258	1.0000	1076
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	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 _r 757	P _c 523.049		
NO.	P _r ²	P _w	P _w ²
1		96	9216
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0163$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1091$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0137$

Apparent Open Flow	1091	Mcf @ 15.025	Angle of Slope @
Remarks:			

Approved By Commission: JAN 6 1971	Conducted By:	Calculated By:	Checked By:
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