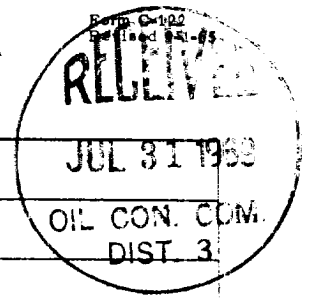


NEW MEXICO OIL CONSERVATION COMMISSION
ONE POINT BACK PRESSURE TEST FOR GAS WELL



Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-7-69	
Company Astec Oil & Gas Company		Connection Southern Union Gathering	
Pool		Formation Pictured Cliffs	
Completion Date 6-30-69		Total Depth 2058	Play Depth 2057
Elevation 5756 GR		Farm or Lease Name Cooper	
Csg. Size 4.0	Wt. 9.5	d 4.090	Set At 2057
Perforations From 1884 To 1996		Well No. 7	
Csg. Size 1.315	Wt. 1.7	d 1.049	Set At 1941
Perforations From To		Unit Sec. Twp. Rng. J 6 29N 11W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		County San Juan	
Producing Thru		Reservoir Temp. °F 2	
Known Annual Temp. °F		State New Mexico	
L	H	Gr	% CO ₂
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.	
Sl							366		363	
1.	2	X	3/4"				201		167	
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_{m1}}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mscf
1.	12.365		179	1.000	.9858	1.023	2.096
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Ratio Carbon 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 _____ °F

P _c 375	P _c ² 140625	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3150$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2627$
NO.	P _c	P _w	P _w ²
1.	32041		33758
2.			106867
3.			
4.			
5.			

ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2647$

Absolute Open Flow	2647	Mscf @ 15.025	Angle of Slope θ	Slope, n
Remarks:				
Approved By Commis.	Conducted By:	Checked By:		