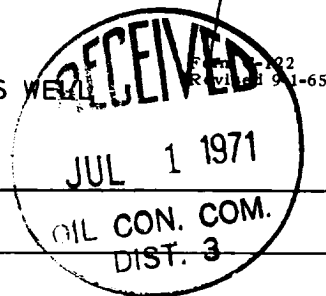


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS



Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6/30/71	
Company Southern Union Production Co.				Connection Southern Union Gathering Company	
Pool Aztec				Formation Pictured Cliffs	
Completion Date 6/19/71		Total Depth 2036		Plug Back TD 2012	Elevation 5704
Farm or Lease Name Zachry					
Csg. Size 3.500	Wt. 7.70	d 3.068	Set At 2035	Perforations: From 1946 To 1952	
Well No. 12					
Tbg. Size 1.900	Wt. 2.76	d 1.610	Set At 1966	Perforations: From 1958 To 1966	
Unit Sec. Twp. Rge. F 33 29N 10W					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At -----	
Producing Thru Tubing		Reservoir Temp. °F 8		Baro. Press. - P _a 12	
State New Mexico					
L 1946	H	Gg 0.620	% 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
SI	2"		3/4"				401		415		8 Days
1.							52	61°	143		3 Hours
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		64	0.9990	0.9837	1.000	778
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 127	P _c ² 182,329	
NO.	P _t ²	P _w ²
1	155	24,025
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1518$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1276$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 877$

Absolute Open Flow 877	Mcf/d @ 15.025	Angle of Slope θ _____	Slope, n 0.85
Remarks: _____			

Approved By Commission:	Conducted By: Val A. Ripper	Calculated By: Kenneth E. Roddy	Checked By: Kenneth E. Roddy
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