

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1/3/74		MAR 19 1974	
Company Southern Union Production Co.				Connection Shut In			
Pool Wildcat				Formation Atoka		Unit O. C. C. ARTESIA, OFFICE	
Completion Date 12/28/73		Total Depth 10,766		Plug Back TD 10,000		Elevation 3878 GL	
Casing Size 4-1/2		Wt. 13.50#		Set At 10,508		Well No. #1	
Tubg. Size 2-3/8		Wt. 4.7#		Set At 9336		Unit H Sec. 13 Twp. 22S Rge. 24E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9336		County Eddy	
Producing Thru Tbg 2		Reservoir Temp. °F 163 @ 9450		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico		L 9473 H 9473 Gg 0.65		% CO ₂ % N ₂ % H ₂ S 		Prover Meter Run choke Nipple 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.	40/64" ch			100		72	100	72	PKI		74-1/2 hrs.
2.											3 hr
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, F _{pv}	Rate of Flow Q, Mcfd
1.	7.522			0.9887	1.217	1.010	914
2.							
3.							
4.							
5.							

NO. 1 P_r 0.169 Temp. °R 532 T_r 1.426 Z 0.98				Gas Liquid Hydrocarbon Ratio Dry Gas Mcf/bbl.			
				A.P.I. Gravity of Liquid Hydrocarbons 0.65 Deg.			
				Specific Gravity Separator Gas XXXXXXXXXX			
				Specific Gravity Flowing Fluid 0.70 XXXXX			
				Critical Pressure 373 P.S.I.A. P.S.I.A.			
				Critical Temperature R R			

P _c 2763.2 P _c ² 7635.3				(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.0056$		(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.0056$	
NO.	P _t ²	P _w	R _w ²	P _c ² - R _w ²			
1.	12.31		42.36	7592.9			
2.							
3.							
4.							
5.							

Absolute Open Flow 920 Mcfd @ 15.025				Angle of Slope 45.0		Slope, n 1.0	
Remarks: 							
Approved By Commission:		Conducted By: W. Swanson		Calculated By: Sudesh Arora		Checked By:	