

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 8-7-72		NM 0275360	
Company Phillips Petroleum Company				Connection Shut in		RECEIVED	
Pool Undesignated - Canyon				Formation Canyon		Unit SEP 15 1972	
Completion Date 8-1-72		Total Depth 12,041'		Plug Back TD 11,970'		Elevation 3217' Gr	
Farm or Lease Name Drag-B. C. C.				Well No. ARTESIA, OFFICE 1			
Csg. Size 5-1/2"	Wt. 17#, 20#	d 3.434	Set At 12,040'	Perforations: From 10,280' To 10,300'		Well No. ARTESIA, OFFICE 1	
Tub. Size produced through casing/ tubing annulus	Wt. produced through casing/ tubing annulus	d produced through casing/ tubing annulus	Set At produced through casing/ tubing annulus	Perforations: From -- To --		Unit Sec. Twp. Rge. K 18 23S 27E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G-G dual				Packer Set At 11,380'		County Eddy	
Producing Thru casing		Reservoir Temp. °F 178 @ 12041		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L 10280	H 10280	G _g .649	% CO ₂ .4	% N ₂ .7	% H ₂ S --	Prover 4"	Meter Run flange

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							4251		4874	83	76
1.	3.826 x 2.000			835	6	105	Morrow		4765	82	1
2.	3.826 x 2.000			835	19	70	Completion		4565	82	1
3.	3.826 x 2.000			835	47	62	Shut-in		4289	82	1
4.	3.826 x 2.000			835	80	51			3919	85	1
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	19.99	71.339	848.2	.9594	1.241	1.065	1808
2	19.99	126.948	848.2	.9905	1.241	1.089	3397
3	19.99	199.663	848.2	.9971	1.241	1.092	5393
4	19.99	260.491	848.2	1.009	1.241	1.101	7179
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Rate of Flow Q, Mcfd
1	Calculations made by				31	57	XXXXXX	XXXXXX	670	667	741
2	electronic calculator								375	405	
3											
4											
5											

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{23884}{8308}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{.7212}{.7212}$
1	22831	4778.0	22829	1055		
2	20960	4581.0	20986	2898		
3	18500	4308.5	18558	5326		
4	15462	3946.7	15576	8308		
5						

Absolute Open Flow 14,672 Mcfd @ 15.025				Angle of Slope θ 55.6		Slope, n .683	
Remarks: Test run at capacity of test equipment on last rate.							
Approved By Commission:		Conducted By: D. E. Simpson		Calculated By: D. E. Simpson		Checked By: W. J. Mueller	