

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 6-2-73		JUN 14 1973	
Company Phillips Petroleum Co.			Connection El Paso Natural Gas Co.		
Pool South Carlsbad (Morrow) Gas			Formation Morrow		Unit ARTESIA, OFFICE
Completion Date 4-11-73		Total Depth 12,105		Plug Back TD 12,011	
Elevation 3226 RKB		Farm or Lease Name Drag "B" "com"			
Csg. Size 5 1/2	Wt. d	Set At d	Perforations: From 11,928 To 11,938		Well No. 2
Tbg. Size 2 7/8	Wt. 6.7	d 2.441	Set At 11878	Perforations: From open To end	Unit Sec. Twp. Rge. C 19 238 37E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,865	
Producing Thru Tubing		Reservoir Temp. *F 180 @ 12000		Mean Annual Temp. *F 74	
Baro. Press. - P _g 13.2		State New Mexico			
L 11,878	H 11,878	Gg .593	% CO ₂	% N ₂	% H ₂ S
Prover		Meter Run 4		Taps 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							3965	74	Packed		24 hr.
1.	4 x 2.250			562.5	60.8	86	1150	90	Packed		48 hr.
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	25.64	187.1	575.7	.9759	1.299	1.041	6331
2							
3							
4							
5							

NO.	P _t	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.86	546	1.54	.922	Dry	
2					A.P.I. Gravity of Liquid Hydrocarbons none	Deg.
3					Specific Gravity Separator Gas .593	X X X X X X X X X
4					Specific Gravity Flowing Fluid X X X X X	
5					Critical Pressure 672 P.S.I.A.	P.S.I.A.
					Critical Temperature 354 R	R

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1	1353.0	1351.4	1826.3	13999.8	1.13	1.083
2						
3						
4						
5						

Absolute Open Flow 6,856 Mcfd @ 15.025 Angle of Slope 57 Slope, n .649*			
Remarks: Calculations made by Electronic Calculator. Program based on New Mexico Manual for Back-Pressure testing of gas wells.			
Approved By Commission:	Conducted By:	Calculated By:	Checked By:
		D. E. Simpson	