

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 2-26-74		MAR - 7 1974	
Company Phillips Petro. Co.		Connection El Paso Natural Gas Company		O. C. C. ARTESIA, OFFICE	
Pool South Carlsbad Morrow - Gas		Formation Morrow		Unit N	
Completion Date 1-14-74		Total Depth 12050		Plug Back TD 11,991	
		Elevation 3170.07' Gr		Farm or Lease Name West Fall A COM	
Csg. Size 5 1/2	Wt. 15.5	d 4.950	Set At 12050	Perforations: From 11764 To 11947	
Trg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11210	Perforations: From Open To Ended	
Type Well - Single - Brockenhead - G.G. or G.C. Multiple Single				Packer Set At 11210	
Producing Tbr Tbg.		Reservoir Temp. °F 180° 11947		Mean Annual Temp. °F 13.2	
Baro. Press. - P _a 13.2		State New Mexico		County Eddy County	
* 11,481	H 11,481	G _g 579	% CO ₂	% N ₂	% H ₂ S
Prover		Meter Run 4"		Taps Flg.	

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	
51							3460	74			24 Hr.
1.	4	x	2.750	360	2.6	78	3070	60			1 hr.
2.	4	x	2.750	367	6.3	10	2832	63			1 hr.
3.	4	x	2.750	363	12.3	69	2608	78			1 hr.
4.	4	x	2.750	363	19.4	86	2337	71			1 hr.
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	41.10	31.15	373.2	.9831	1.314	1.028	1,700
2	41.10	48.94	380.2	1.052	1.314	1.044	2,903
3	41.10	68.02	376.2	.9915	1.314	1.028	3,744
4	41.10	85.43	376.2	.9759	1.314	1.024	4,611
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.56	534	1.54	.947	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.57	470	1.36	.918	Specific Gravity Separator Gas _____ X X X X X X X X
3.	.56	529	1.53	.947	Specific Gravity Flowing Fluid _____ X X X X X
4	.56	546	1.58	.953	Critical Pressure _____ 672 P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ 346 R _____ R

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²
1	3086.6	9527.1	2536.0	
2	2864.0	802.5	3860.6	
3	2652.5	7035.8	5027.3	
4	2401.1	5765.3	6297.8	
5				

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.915$

ADP = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 8.544$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.853$

Absolute Open Flow	8,544	Mcf/d @ 15.025	Angle of Slope θ	46.5	Slope, n	.949
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Remarks: * Cac. Equ. length No liquid made during test.

Approved By Commission:	Conducted By: Reggie Reston, Rick Pagan	Calculated By: Reggie Reston	Checked By:
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