

NE MEXICO OIL CONSERVATION COMM ON
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 1-31-74		FEB 8 1974		
Company Phillips Petroleum Company				Connection El Paso Natural Gas Co.				D.C.C. ARTISIA OFFICE	
Pool South Carlsbad Morrow				Formation Morrow				Unit N	
Completion Date 1-14-74		Total Depth 12050		Plug Back TD 11991		Elevation 3170.07' GR 3188' DF		Farm or Lease Name West Fall A Com	
Csg. Size 5 1/2	Wt. 15.5	d 4950	Set At 12050	Perforations: From 11764 To 11947				Well No. 1	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11210	Perforations: From open To end				Unit Sec. Twp. Rge. N 5 23 27	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 11210		County Eddy		
Producing Thru Tbg		Reservoir Temp. °F 180 @ 11947		Mean Annual Temp. °F		Baro. Press. - P _a 13.2		State New Mexico	
L 11856	H 11856	Gg .576	% 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
SI							3897				72 hrs
1.	4.026	x	1.750	358	7.3	67	3700	72			45 M
2.	4.026	x	1.750	360	19.3	68	3504	74			45 M
3.	4.026	x	1.750	360	33	50	3272	75			1 hr.
4.	4.026	x	1.750	362	56	40	3035	76			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	14.93	52.06	371.2	.9933	1.318	1.028	1046
2	14.93	84.87	373.2	.9924	1.318	1.027	1702
3	14.93	110.98	373.2	1.010	1.318	1.031	2274
4	14.93	144.95	375.2	1.020	1.318	1.033	3005
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	None	Mcf/bbl.
1	.55	527	1.52	.947	A.P.I. Gravity of Liquid Hydrocarbons	Dry	Deq.
2	.55	528	1.53	.948	Specific Gravity Separator Gas		XXXXXXXXXX
3	.55	510	1.47	.940	Specific Gravity Flowing Fluid	XXXXXX	
4	.55	500	1.45	.937	Critical Pressure	672	P.S.I.A.
5					Critical Temperature	346	R

P _c 3910.2 P _w 15289.7				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.450$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.380$	
NO	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²			
1		3718.2	13825.0	1464.7			
2		3513.3	12343.3	2046.4			
3		3295.2	10858.3	4431.4			
4		3064.7	9392.4	5897.3			
5							

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.411$

Absolute Open Flow	5.411	Mcf/d @ 15.025	Angle of Slope @	55	Slope, n	.700
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Remarks: No liquid made during test

Approved By Commission:	Conducted By: Randy Kiker	Calculated By: Randy Kiker	Checked By:
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