

NEW 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 5-31-73			
Company Phillips Petroleum Company				Connection El Paso Natural Gas Company					
Pool Carlsbad, South (Morrow) Gas				Formation Morrow				Unit	
Completion Date 4-11-73		Total Depth 12,105		Plug Back TD 12,011		Elevation 321862		Farm or Lease Name Drag B	
Csg. Size 5 1/2"	Wt. d	Set At	Perforations: From 11928 To 11938				Well No. 2		
Tub. Size 2 7/8	Wt. 6.7	d 2.441	Set At 11,878	Perforations: From Open To end				Unit C	Sec. 19
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,865		County Eddy			
Producing Thru TBG		Reservoir Temp. °F 180 @ 12,000		Mean Annual Temp. °F 74		Baro. Press. - P _a 13.2		State New Mexico	
L 11,878	H 11,878	G _g .593	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4	Taps FIS.	

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			24 hr.
1.	4 x 2.250			530	7.30	71	3590	72			1 hr.
2.	4 x 2.250			535	13.00	44	3315	75			1 hr.
3.	4 x 2.250			543	21.81	32	2890	76			1 hr.
4.	4 x 2.250			548	34.81	36	2312	81			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 F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	25.64	61.21	513.2	.9896	1.299	1.040	2,098
2	25.64	84.42	548.2	1.016	1.299	1.053	3,008
3	25.64	110.14	556.2	1.028	1.299	1.059	3,994
4	25.64	139.77	561.2	1.024	1.299	1.058	5,043
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.76	531	1.50	.924	Dry	None	.593	XXXXXXX	672	354
2.	.81	504	1.42	.902				XXXXXX		
3.	.83	492	1.39	.892						
4.	.84	495	1.40	.894						
5.										

NO.	P _r	P _w	P _r ²	P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1			13040.9	2785.2	1.565	1.337
2			11192.6	4633.5		
3			8925.7	7200.4		
4			5710.7	10115.4		
5						

Absolute Open Flow 6,742 Mcfd @ 15,025 Angle of Slope 57 Slope, n .67
 Remarks: No fluid made during test

Approved By Commission:	Conducted By: Roberts & Huffman	Calculated By: J. B. Murray	Checked By: D. E. Longman
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RECEIVED
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U. S. GEOLOGICAL SURVEY
ALBUQUERQUE, NEW MEXICO