

NEW MEXICO OIL CONSERVATION COMMISSION
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 7-18-78		JUL 25 1978	
Company Gulf Oil Corporation				Connection Air			
Pool Undesignated <i>Angel Ranch</i>				Formation Morrow		Unit O.C.G. ARTESIA, OFFICE	
Completion Date 6/26/78		Total Depth 11150		Plug Back TD 11122		Elevation 3380 GL	
Form or Lease Name Pacheco Federal		Well No. # 2					
Csg. Size 5 1/2	Wt. 17	Set At 11150	Perforations: From 10960 To 10966		Unit Sec. Twp. Rge. G 1 20 27		
Thq. Size 2 3/8	Wt. n/80	Set At 10845	Perforations: From To				
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At 10845		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 180 ° Perfs		Mean Annual Temp. °F 60		State New Mexico	
L 10845	H 10845	Gg .601	% CO ₂ .72	% N ₂ 1.04	% 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	of Flow
SI							2975				72 Hr
1.	4	X	1.250	600	4.0	96	2460				1 Hr
2.	4	X	1.250	600	10.0	93	2105				1 Hr
3.	4	X	1.250	600	19.0	89	1855				1 Hr
4.	4	X	1.250	645	35.0	83	1250				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, F _{scv}	Rate of Flow Q, Mcfd
1	7.469	49.53	613.2	.9671	1.290	1.043	481
2	7.469	78.31	613.2	.9697	1.290	1.044	764
3	7.469	107.94	613.2	.9732	1.290	1.045	1053
4	7.469	151.78	658.2	.9786	1.290	1.050	1503
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcft/bbl.
1.	.91	556	1.55	.920	39.646	
2.	.91	553	1.54	.918	46 @ 60°	
3.	.91	549	1.53	.916		
4.	.98	543	1.52	.907		
5.						

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.229$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.229$
1		2474.5	6123.2	2306.2		
2		2122.1	4503.3	4426.0		
3		1876.7	3522.0	5407.3		
4		1290.6	1665.6	7263.7		
5						

Absolute Open Flow		1,848	Mcft @ 15.025	Angle of Slope	45°	Slope, n	1.000
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Remarks: Produced 4 Bbls Of Distillate

Approved by Commission:	Conducted By: Larry Davis	Calculated By: Larry Davis	Checked By:
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*Posted
 7-28-78
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DIETZEN CORPORATION

