

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 June 8, 1966			
Company Pan American Pet. Corp.				Connection Marathon				JUL 13 1966	
Pool Indian Basin				Formation Cisco Canyon				Unit O. C. C. ARTERIA, OFFICE	
Completion Date 10-27-65		Total Depth 8025		Plug Back TD 8025		Elevation 4003.7 GR		Farm or Lease Name Federal D	
Case Size 4 1/2"	Wt. 9.5, 11.6 & 10.5#	3.892	Set At 8025	Perforations: From 7602 To 7718		Well No. 2			
Reg. Size 2-3/8"	Wt. 4.7#	1.9950	Set At 7272	Perforations: From None To		Unit Sec. Twp. Rge. F 7 22S 24E			
Type Well - Single - (Drillhead - G.O. or G.O. Multiple) Single						Packer Set At 7209		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 143°		Mean Annual Temp. °F 70°		Baro. Press. - P _a 13.2		State New Mexico	
L 7272	H 7272	C _g 0.633	% CO ₂ 0.60	% N ₂ 11.61	% H ₂ S 0	Prover ---	Meter Run 3"	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							2315				25
1.	3		1.625	7.40	3.8	81	2280	70			1
2.	3		1.625	7.40	5.5	81.5	2260	72			1
3.	3		1.625	7.41	7.5	75	2205	73			1
4.	3		1.625	7.45	9.16	75	2150	75			1
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	L-10 Pressure Factor P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	13.24	28.12	4.472	.9804	1.2569	1.0950	2246
2	13.24	40.70	4.472	.9804	1.2569	1.0950	3251
3	13.24	55.58	4.472	.9859	1.2569	1.1070	4493
4	13.24	68.24	4.472	.9859	1.2569	1.1020	5518
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 87-122		
1	1.635	541	1.470	0.7929	A.P.I. Gravity of Liquid Hydrocarbons 59		Mc/bbl.
2	1.635	541.5	1.471	0.7534	Specific Gravity Separator Gas .633		Deq.
3	1.635	535	1.454	0.7534	Specific Gravity Flowing Fluid XXXXX		.669
4	1.635	535	1.454	0.7901	Critical Pressure 670 P.S.I.A.		670 P.S.I.A.
5					Critical Temperature 368 R		368 R

P _r 2868	P _c 8225		
NO	P _i ²	P _w	P _w ²
1	5198.4	2855	8151
2	5167.6	2851	8128
3	4862.0	2819	7947
4	4622.5	2789	7779
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \dots$$

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

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 24,411 \text{ MCFPD}$$

Absolute Open Flow 24,411	Mcfd @ 15.025	Angle of Slope @ 63.1903	Slope, n 0.5053
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Remarks: Calculations were done by computer. F_{pv} and Z vary slightly to fit programmed factors.

Approved By Commission:	Conducted By: E. J. Snook	Calculated By:	Checked By:
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