

N 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 6-7-66	
Company Pan American Pet. Corp.		Connection Marathon	
Field Indian Basin		Formation Cisco Canyon	
Completion Date 8-27-65		Total Depth 10,230	Plug Back TD 8352
Elevation 4230.3 GR		Farm or Lease Name Federal A Com	
Casing Size 5 1/2"	Well 14, 15.5, & 17#	Set At 4.00	Perforations: From 7671 To 7687
Tubing Size 2-3/8"	Well 4.7#	Set At 1.995	Perforations: From None To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 7709	Well No. 1
Producing Thru Tubing	Reservoir Temp. °F 143°	Mean Annual Temp. °F 70°	Baro. Press. - P _g 13.2
L 7772	H 7772	G _g 0.632	% CO ₂ 0.60
		% N ₂ 11.61	% H ₂ S 0
		Prover -	Meter Run 3"
			Tape Flange

FLOW DATA										
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
1.	3		1.625	7.58	3.80	92	2300			
2.	3		1.625	7.60	5.41	91	2195	75		
3.	3		1.625	7.59	7.10	85	2126	74		
4.	3		1.625	7.59	9.20	86	2001	73		
5.							1804	74		

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	L-10 Pressure Factor P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	13.24	28.80	4.472	0.9706	1.2579	1.0810	2251
2	13.24	41.12	4.472	0.9715	1.2579	1.0860	3231
3	13.24	53.89	4.472	0.9768	1.2579	1.0950	4293
4	13.24	70.01	4.472	0.9759	1.2579	1.0980	5587
5							

NO.	P ₁	Temp. °R	T ₁	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	1.715	552	1.50	0.7817	86.793	58.4	0.632	XXXXXX	670	368
2	1.724	551	1.497	0.7817						
3	1.719	545	1.481	0.7776						
4	1.728	546	1.484	0.7789						
5										

NO.	P ₁ ²	P _w	P _w ²	P ₁ ² - P _w ²
1	4875	2829	8003	453
2	4575	2788	7773	683
3	4056	2703	7306	1150
4	3301	2580	6656	1800
5				

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

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 15,826$

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

Absolute Open Flow	15,826	Mcfd @ 15.025	Angle of Slope @	56.0499	Slope, n	.6641
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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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