

MEXICO OIL CONSERVATION COMM. ON
MULTIPOINT AND ONE POINT BACK PRESSURE TESTS FOR GAS WELL

Form C-122
Revised 9-1-65

Test Type: ☒ Initial ☐ Annual ☐ Special						Test Date: 6-17-74	
Company: Atlantic Richfield Company				Connection: El Paso Natural Gas Company			
Well: Jalmat				Formation: Yates		Unit:	
Completion Date: 4-1-74		Total Depth: 3600		Plug Back TD: 3550		Elevation: 3474 DF	
Farm or Lease Name: McDonald State (WN)							
Casing Size: 4 1/2		Wt.: 9.5		ID: 4.090		Set At: 3599	
Perforations: From 3172 To 3300		Well No.: 22					
Perforations: From open To end		Unit: A		Sec.: 26		Twp.: 22	
Range: 36		County: Lea					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 3120		State: New Mexico	
Producing Thru: Tbg.		Reservoir Temp. °F: 90 @ 3600		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 13.2	
Tbg.: 3120		H: 3120		Gc: .669		% 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	Duration of Flow
1.	4 x 1.750			83	2.25	84	241				72 hrs.
2.	4 x 1.750			86	5.52	81	193				1 hr.
3.	4 x 1.750			88	9.61	81	152				45 Min.
4.	4 x 1.750			98	12.96	82	110				45 Min.

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	14.71	96.2	.9777	1.223	Neg.	263
2	14.93	23.40	99.2	.9804	1.223	Neg.	419
3	14.93	31.19	101.2	.9804	1.223	Neg.	558
4	14.93	37.96	111.2	.9745	1.223	Neg.	679

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	None	Mcf/bbl.
1	.14	544	1.44	Neg.	A.P.I. Gravity of Liquid Hydrocarbons	Dry	Deg.
2	.15	541	1.43	Neg.	Specific Gravity Separator Gas	.669	X X X X X X X X
3	.15	541	1.43	Neg.	Specific Gravity Flowing Fluid	X X X X X	
4	.17	542	1.43	Neg.	Critical Pressure	670	P.S.I.A.
5					Critical Temperature	378	R

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.276$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.276$
1		255.9	65.5	32.0		
2		211.4	44.7	52.8		
3		176.6	31.2	66.3		
4		145.3	21.1	76.4		

Absolute Open Flow: 867 Mcfd @ 15.025				Angle of Slope: 45		Slope, n: 1.000	
Remarks: No fluid made.							

Approved By Commission: 	Conducted By: Rick Pagan	Calculated By: Rick Pagan	Checked By: L. C. Hudry
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